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Fig. 1

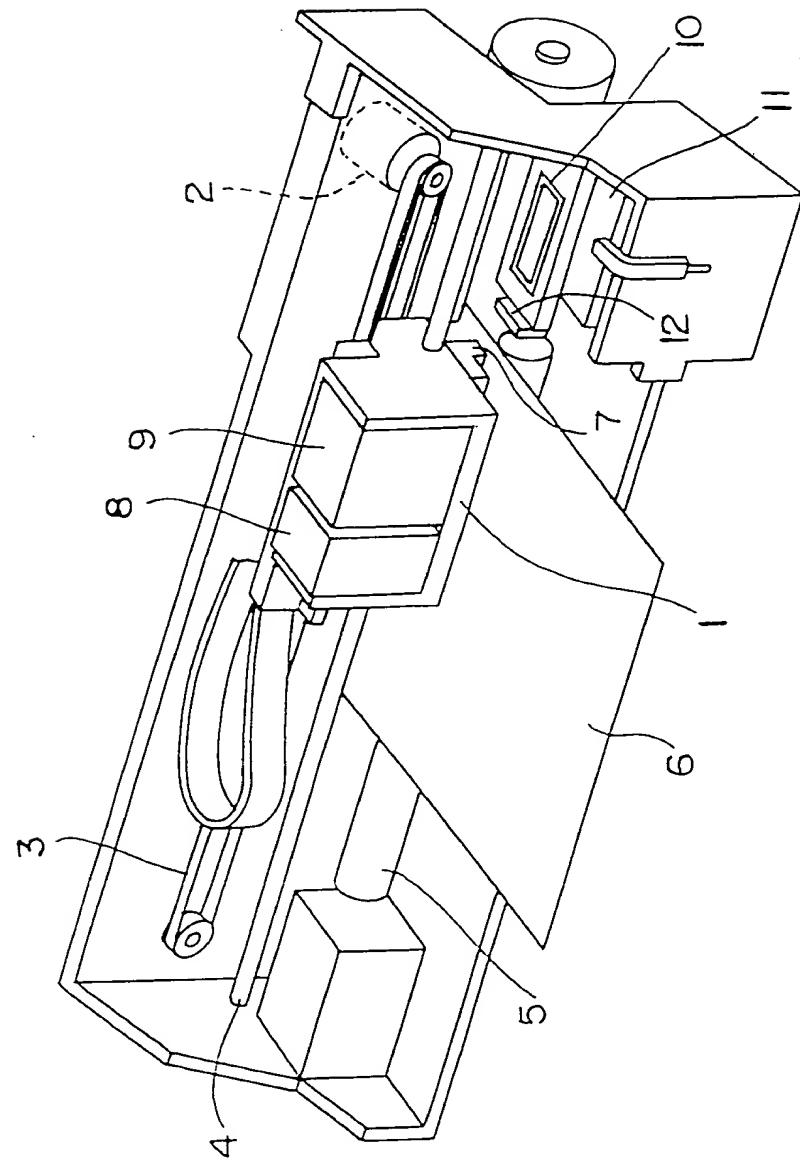


Fig. 2

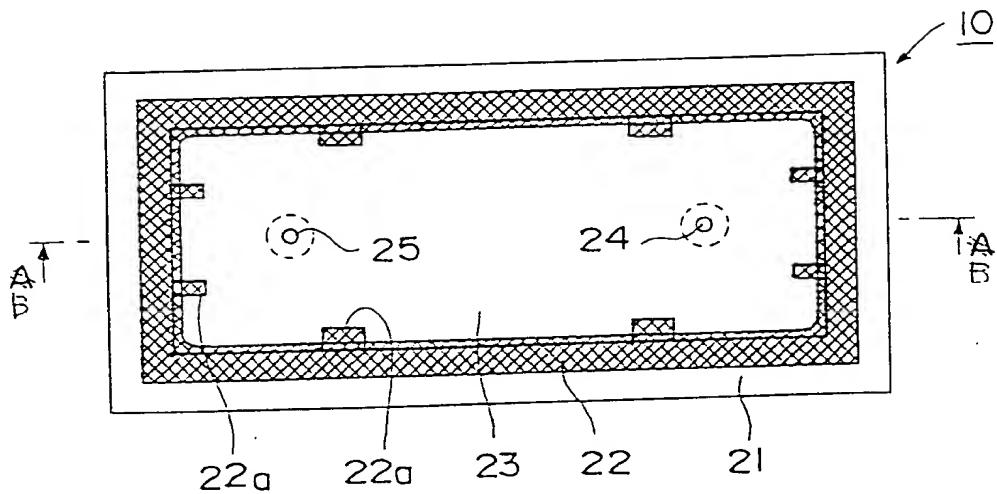
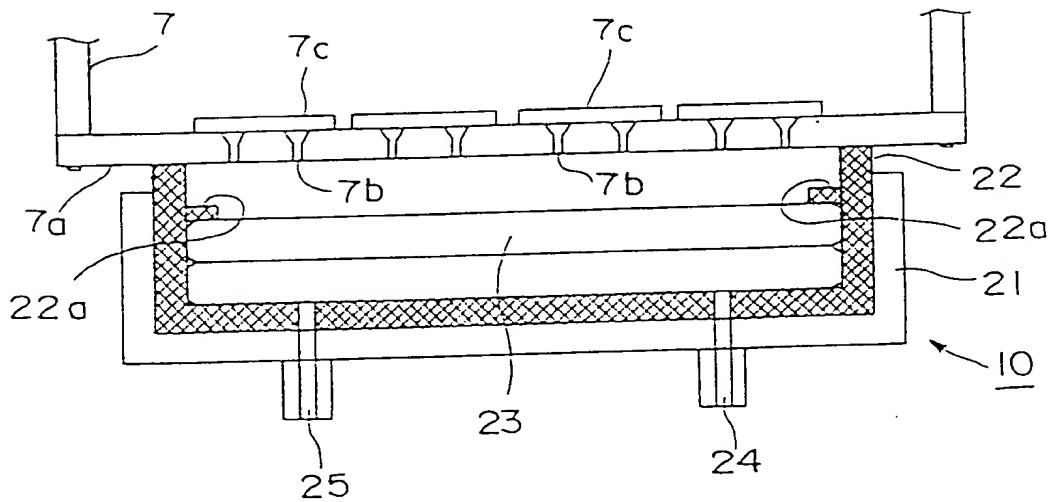
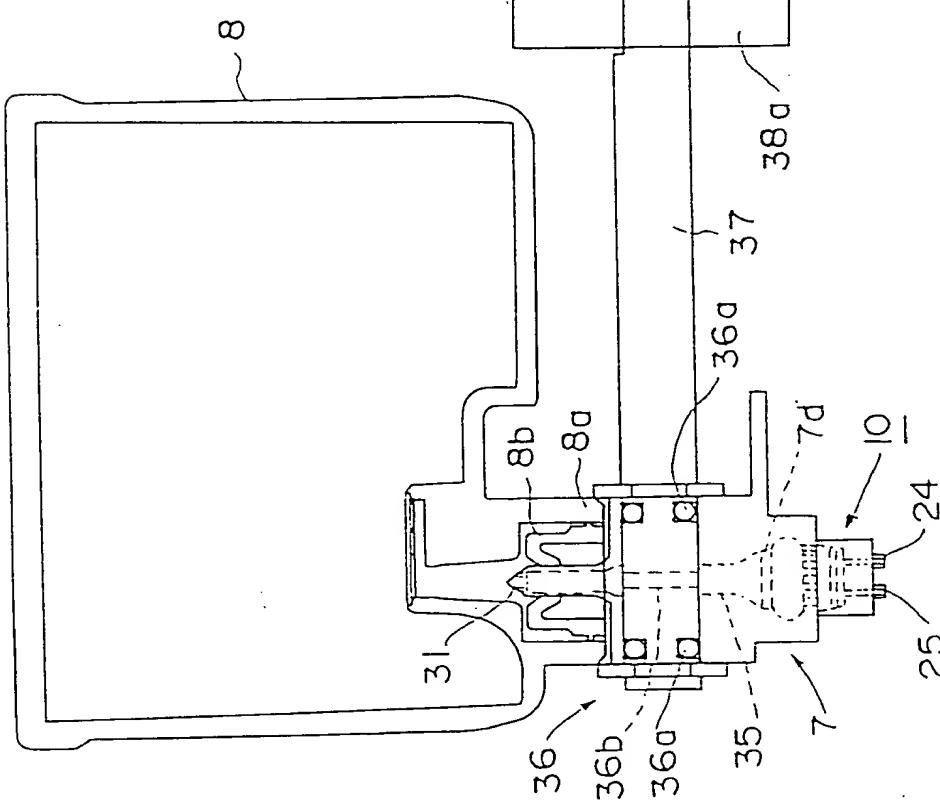
~~[Fig. 2]~~

Fig. 3

~~[Fig. 3]~~

~~Fig. 4A~~
Fig. 4B



~~Fig. 4A~~
Fig. 4B

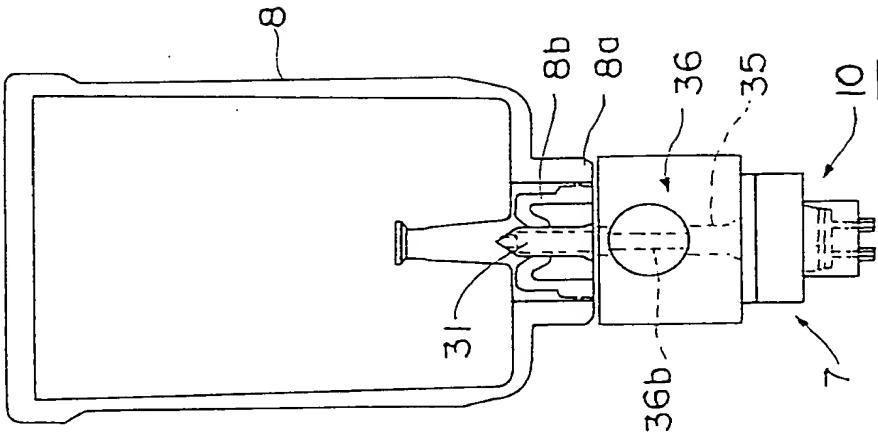
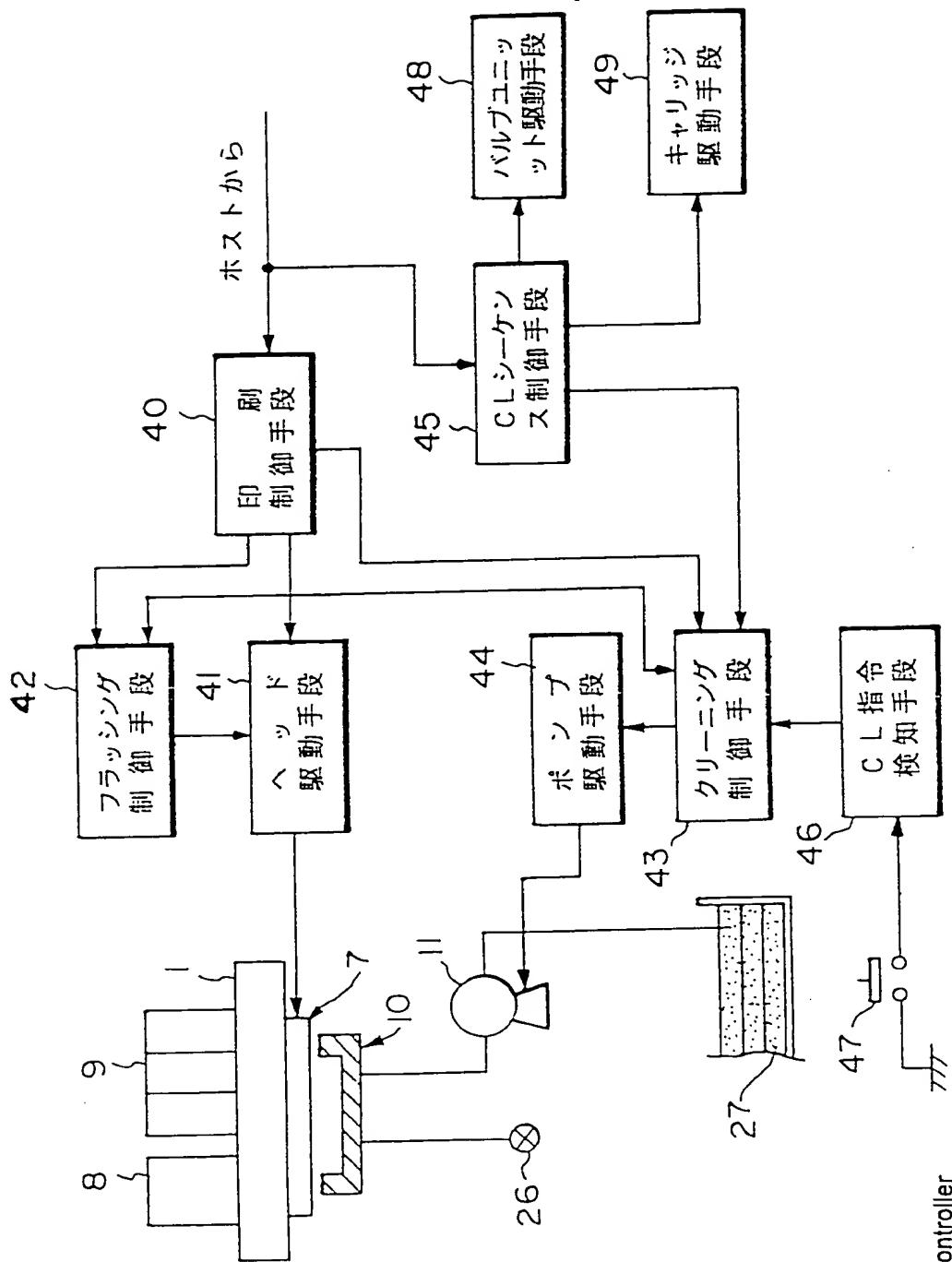
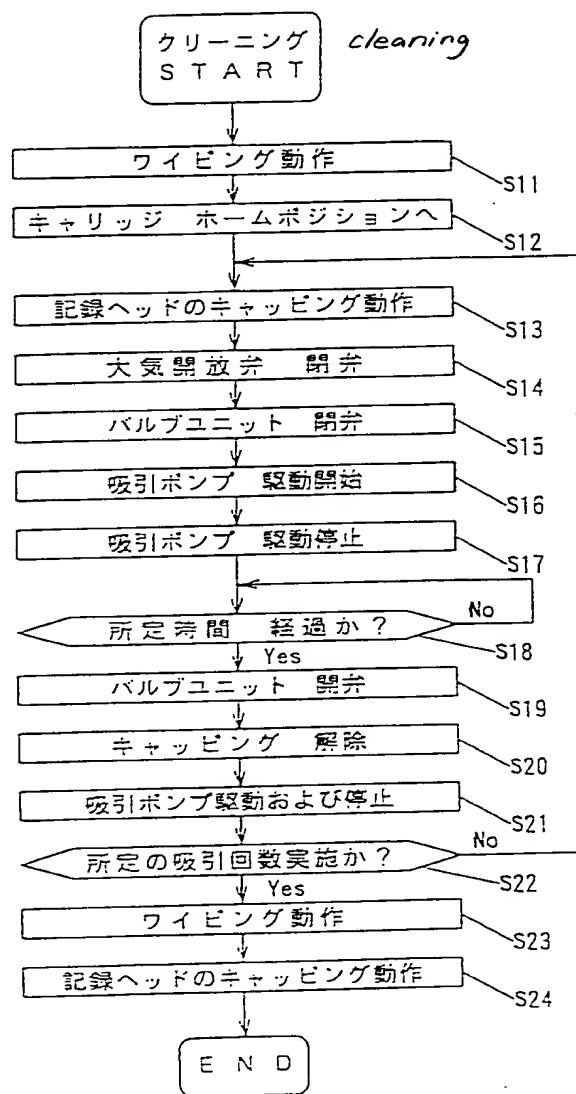


Fig. 5



- 40: print controller
- 41: head driver
- 42: flushing controller
- 43: flush driver
- 44: pump driver
- 45: cleaning sequence controller
- 46: cleaning command detector
- 47: C L command input
- 48: valve unit driver
- 49: carriage driver

Fig. 6



- S11: perform wiping operation
- S12: move carriage to home position
- S13: perform capping operation of recording head
- S14: close air valve
- S15: close valve unit
- S16: start driving suction pump
- S17: stop driving suction pump
- S18: predetermined time period has elapsed?
- S19: open valve unit
- S20: release capping
- S21: drive and stop suction pump
- S22: ink has been sucked predetermined number of times?
- S23: perform wiping operation
- S24: perform capping operation of recording head

Fig. 7

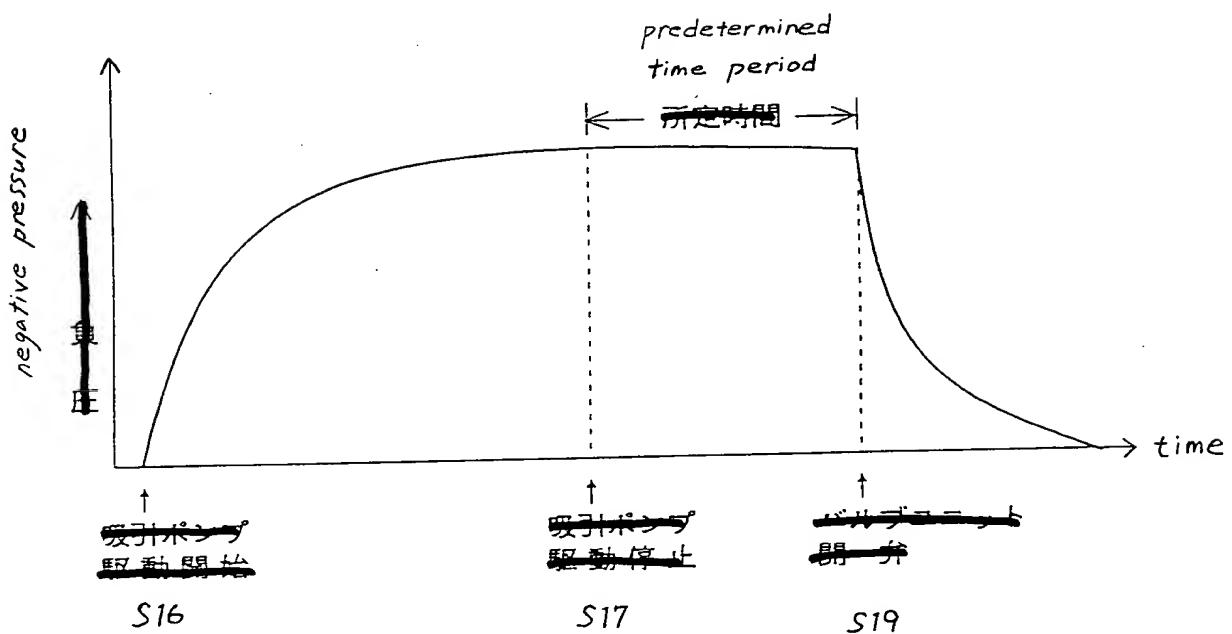
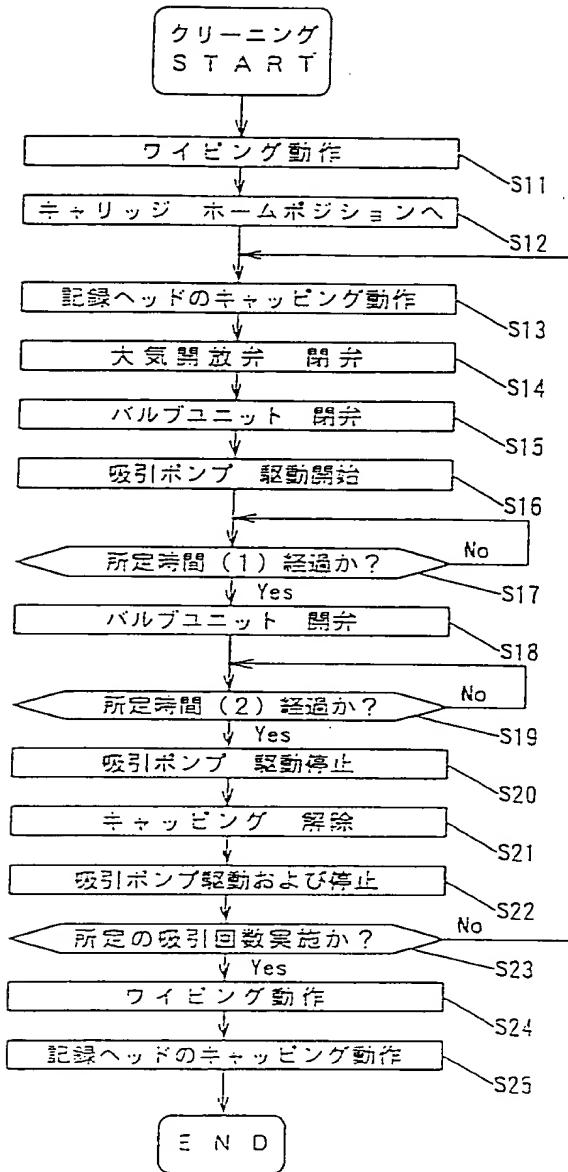


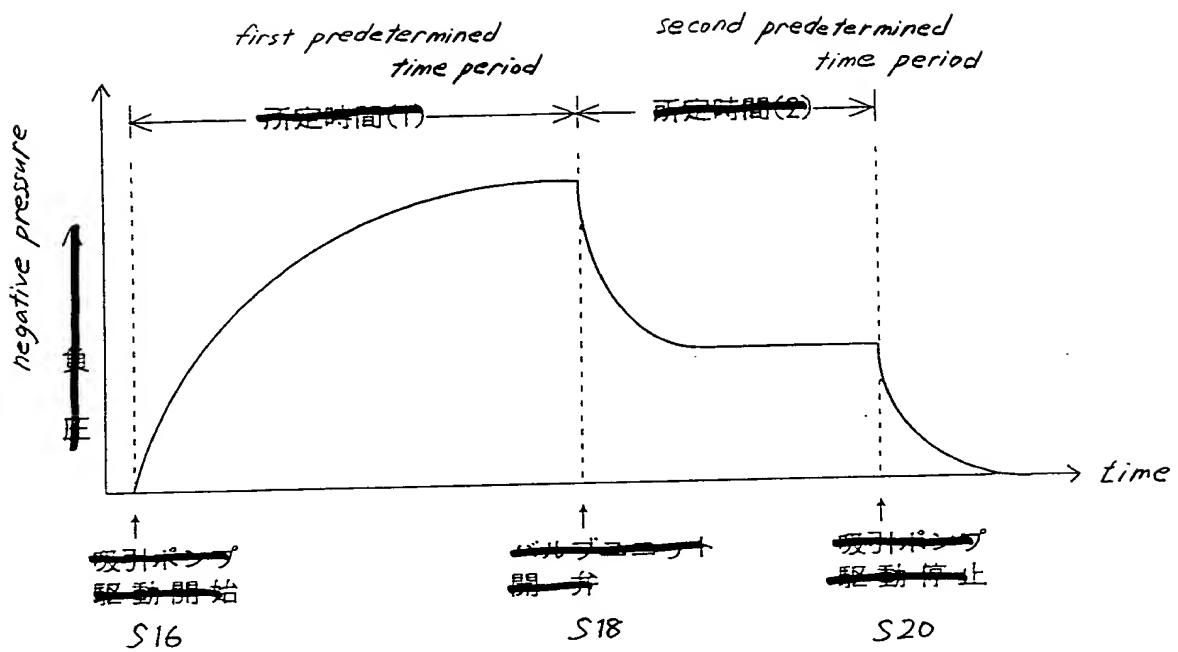
Fig. 8



- S11: perform wiping operation
- S12: move carriage to home position
- S13: perform capping operation of recording head
- S14: close air valve
- S15: close valve unit
- S16: start driving suction pump
- S17: first predetermined time period has elapsed?
- S18: open valve unit
- S19: second predetermined time period has elapsed?
- S20: stop driving suction pump
- S21: release capping
- S22: drive and stop suction pump
- S23: ink has been sucked predetermined number of times?
- S24: perform wiping operation
- S25: perform capping operation of recording head

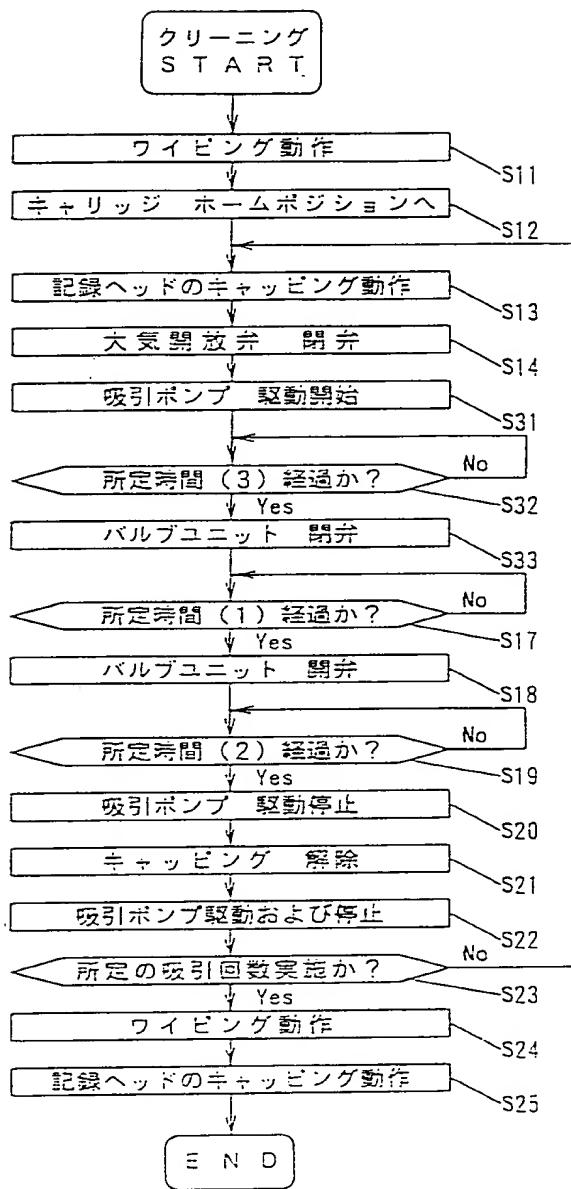
Fig. 9

9
[図9]



【図10】

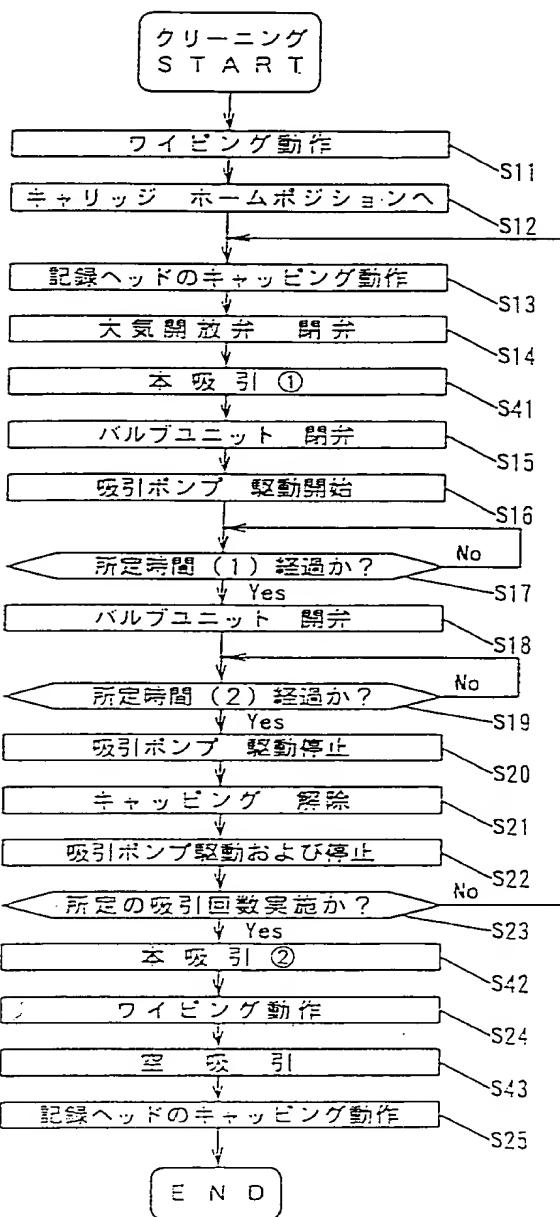
Fig. 10



- S11: perform wiping operation
- S12: move carriage to home position
- S13: perform capping operation of recording head
- S14: close air valve
- S31: start driving suction pump
- S32: third predetermined time period has elapsed?
- S33: close valve unit
- S17: first predetermined time period has elapsed?
- S18: open valve unit
- S19: second predetermined time period has elapsed?
- S20: stop driving suction pump
- S21: release capping
- S22: drive and stop suction pump
- S23: ink has been sucked predetermined number of times?
- S24: perform wiping operation
- S25: perform capping operation of recording head

~~(参考)~~

Fig. 11



- S11: perform wiping operation
- S12: move carriage to home position
- S13: perform capping operation of recording head
- S14: close air valve
- S41: perform first substantial suction
- S15: close valve unit
- S16: start driving suction pump
- S17: first predetermined time period has elapsed?
- S18: open valve unit
- S19: second predetermined time period has elapsed?
- S20: stop driving suction pump
- S21: release capping
- S22: drive and stop suction pump
- S23: ink has been sucked predetermined number of times?
- S42: perform second substantial suction
- S24: perform wiping operation
- S43: perform idle suction
- S25: perform capping operation of recording head

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Fig. 12 B

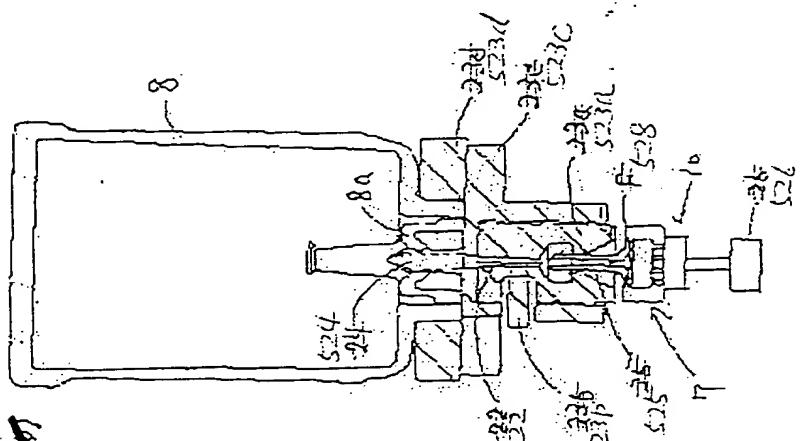


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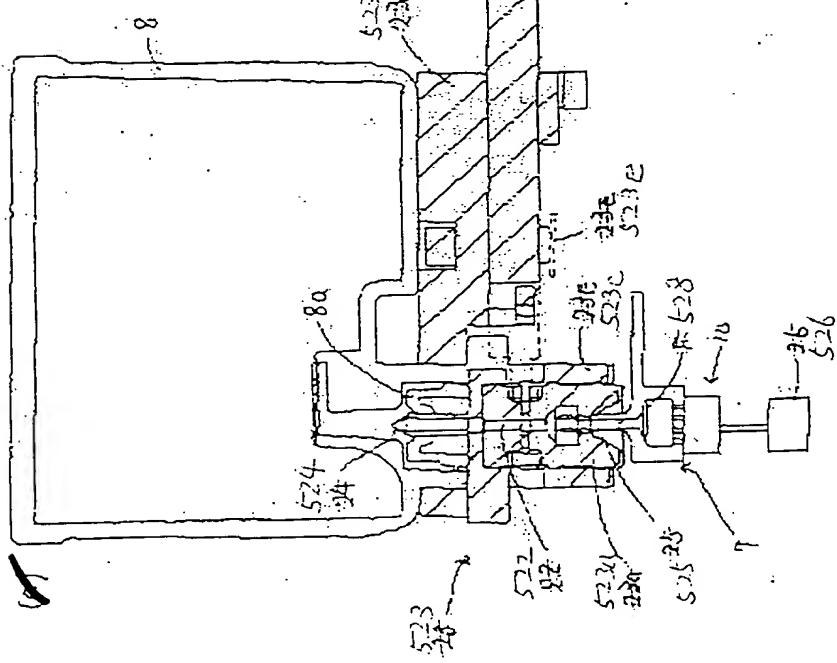


Fig. 13

13
[図 13]

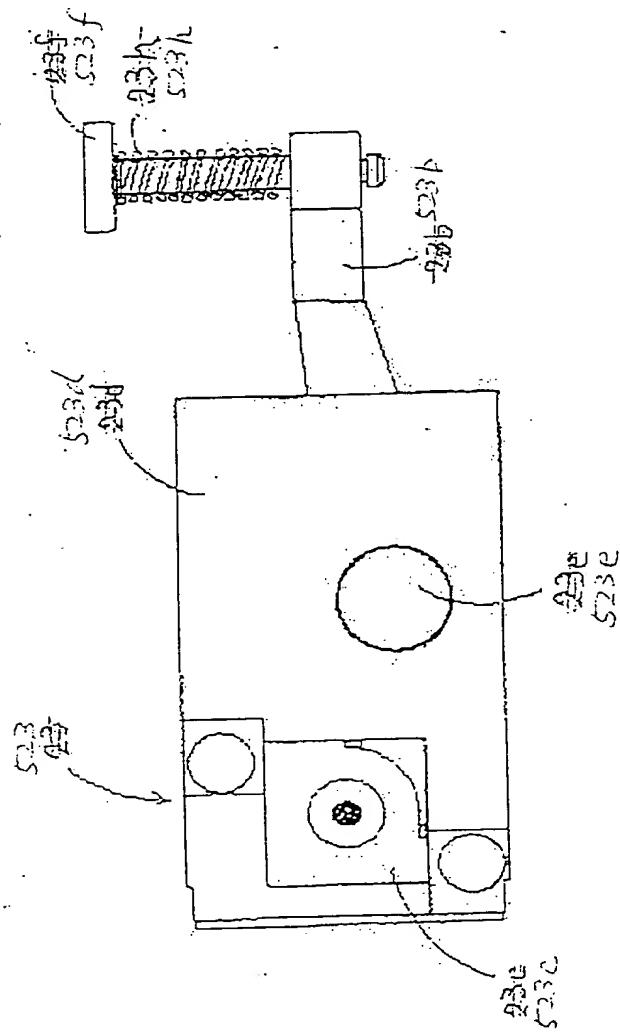


Fig. 14

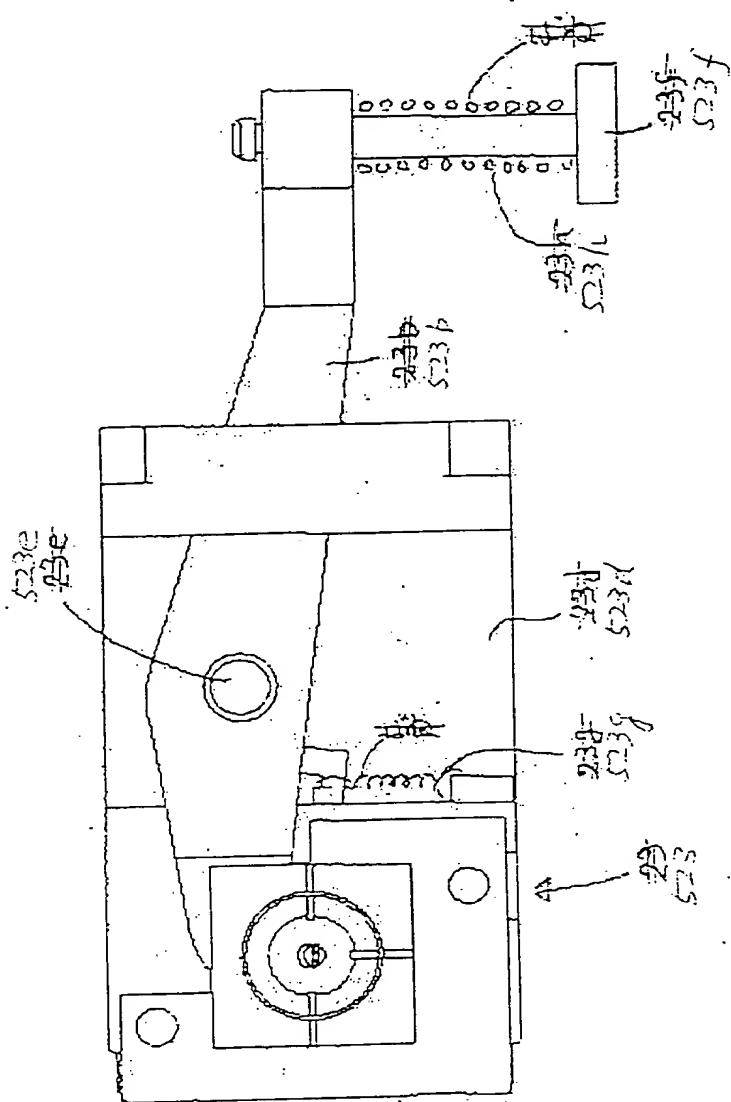


Fig. 15A

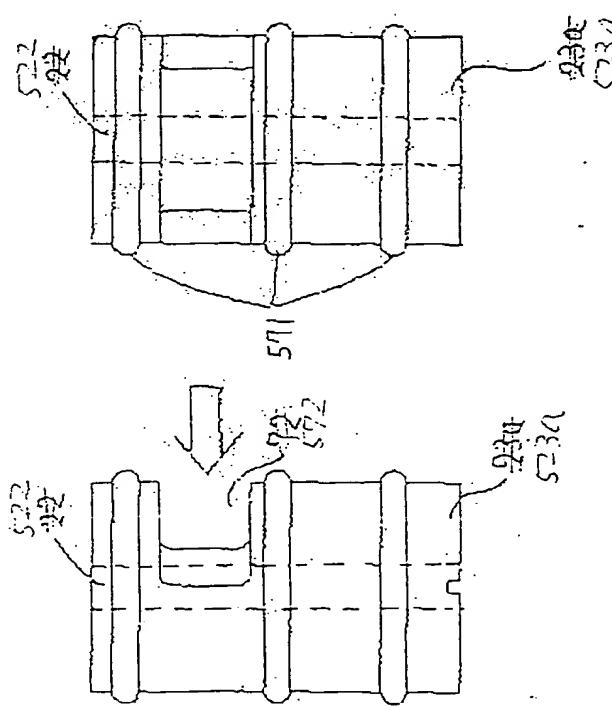


Fig. 15B

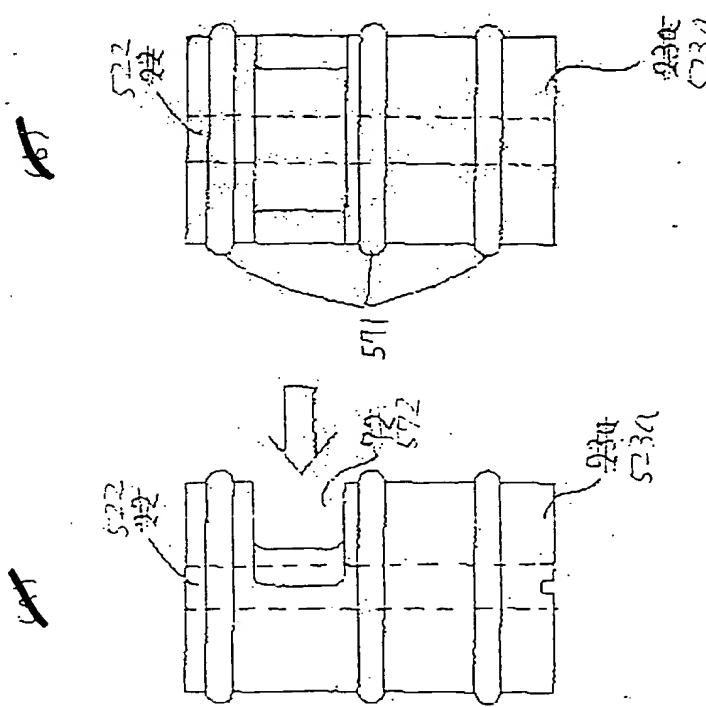
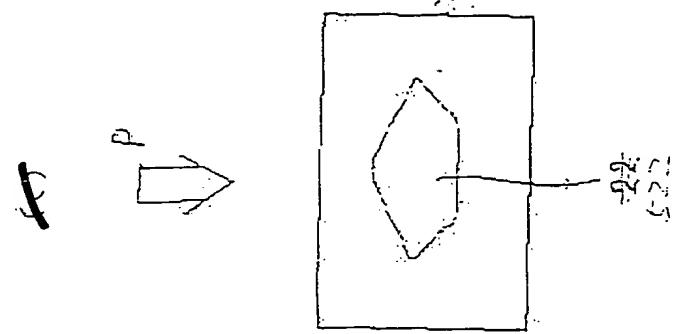
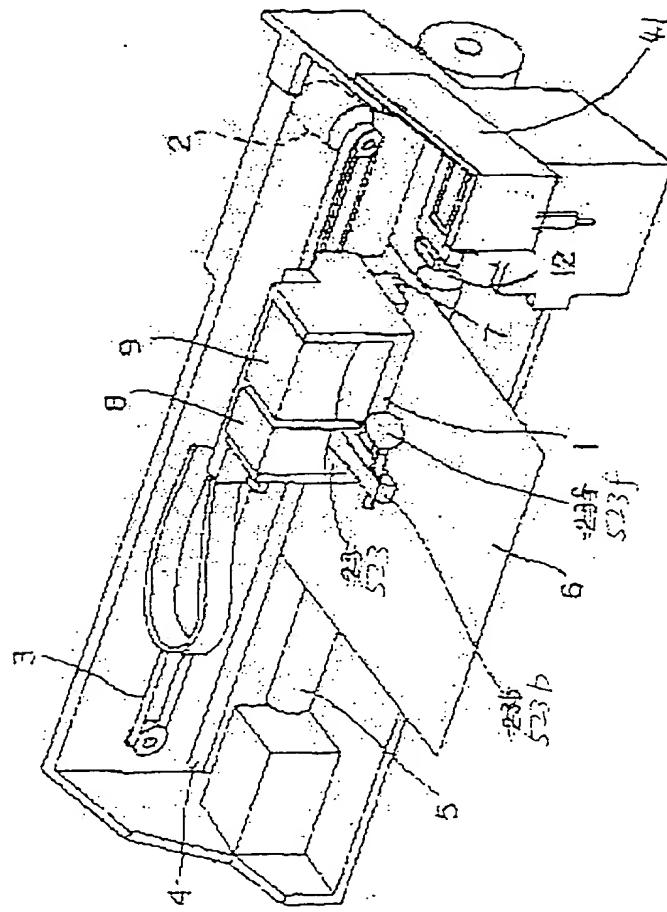


Fig. 15C



16
[図6]

Fig. 16



17

Fig. 17B

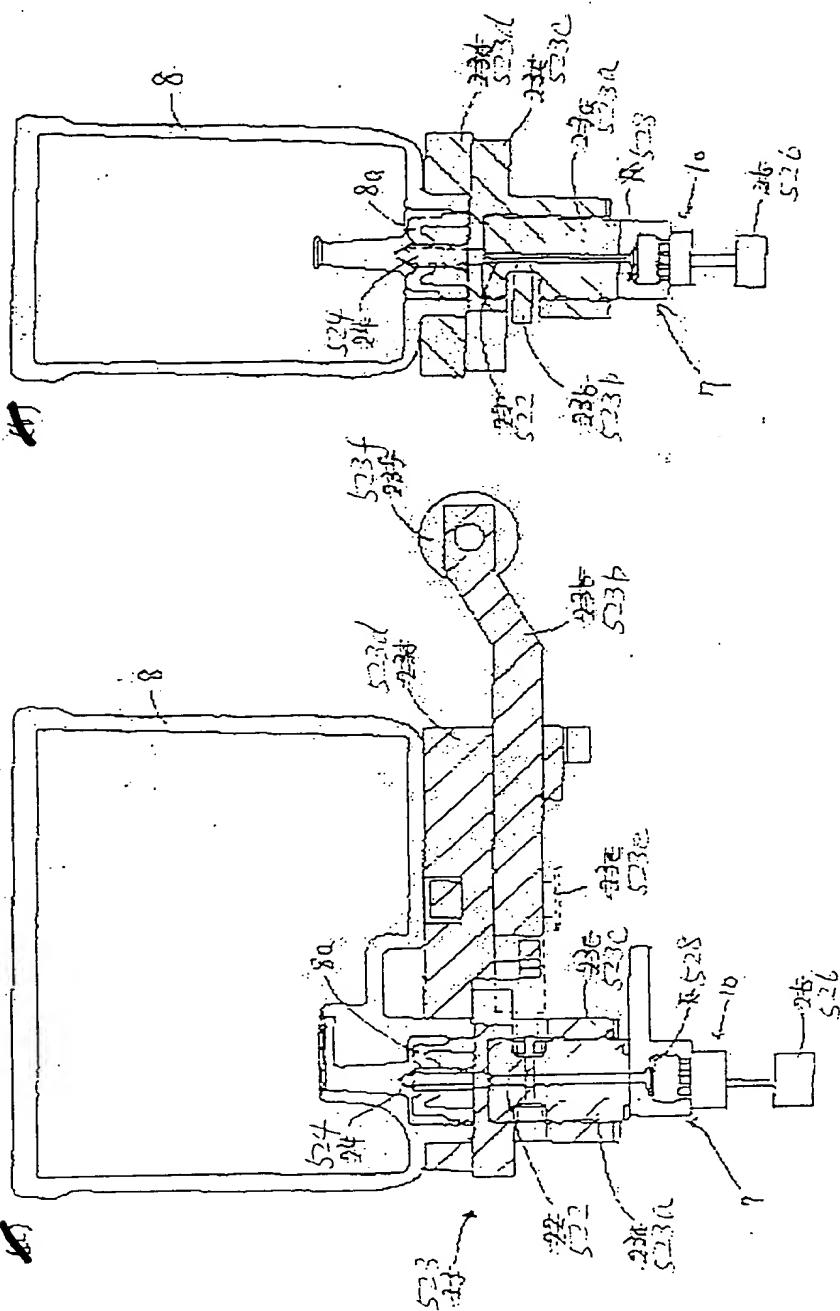


Fig. 17A

【8】

Fig. 18A

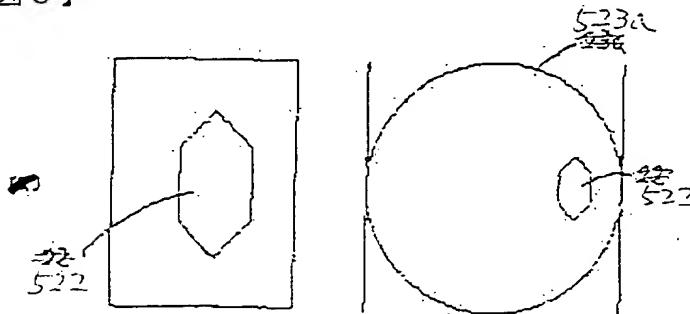


Fig. 18B

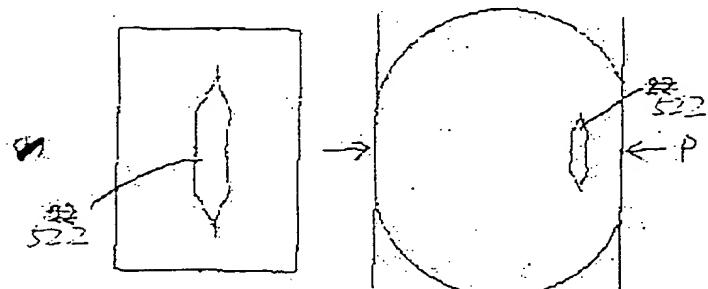


Fig. 18C

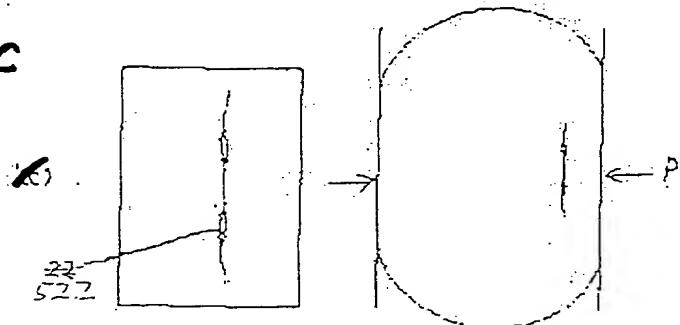
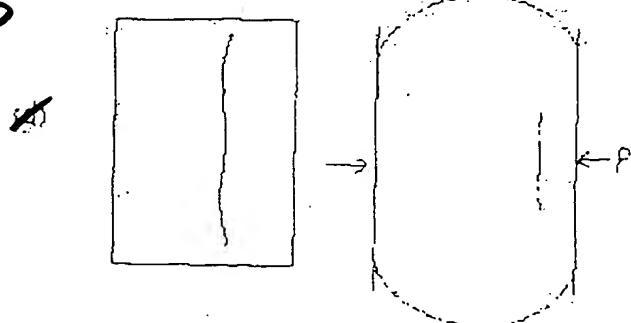


Fig. 18D



[①]

Fig. 19A

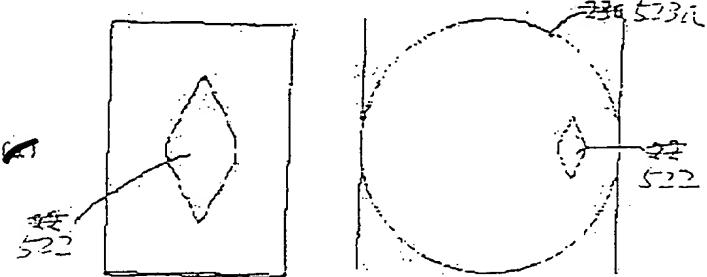


Fig. 19B

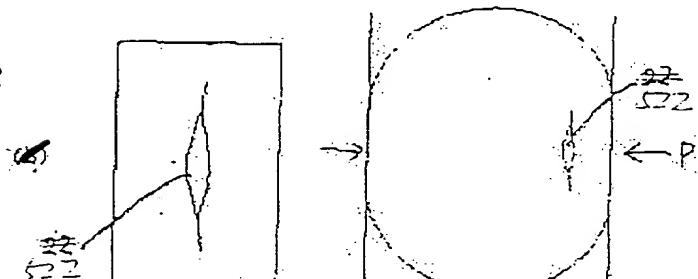


Fig. 19C

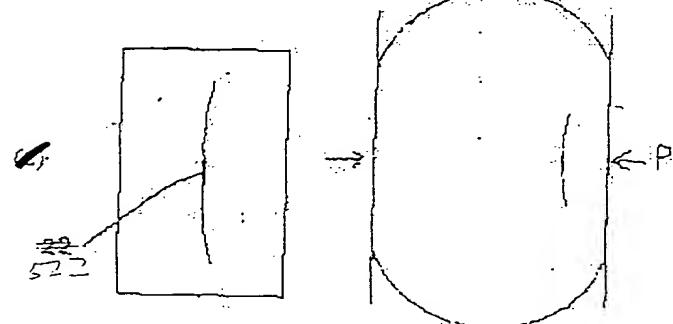
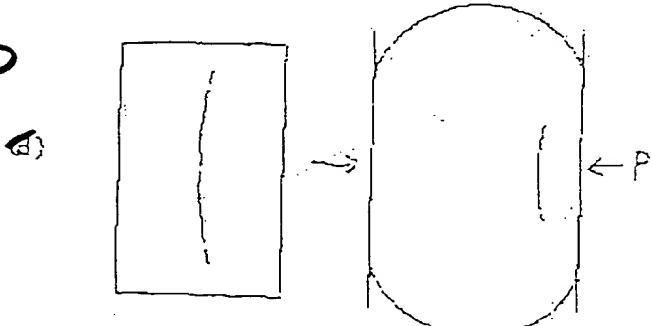


Fig. 19D



~~20~~
[~~20~~-0]

Fig. 20A

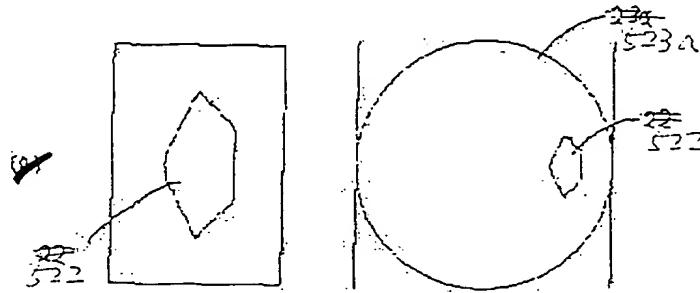


Fig. 20B

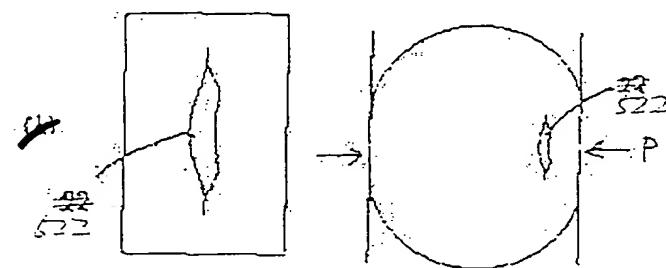


Fig. 20C

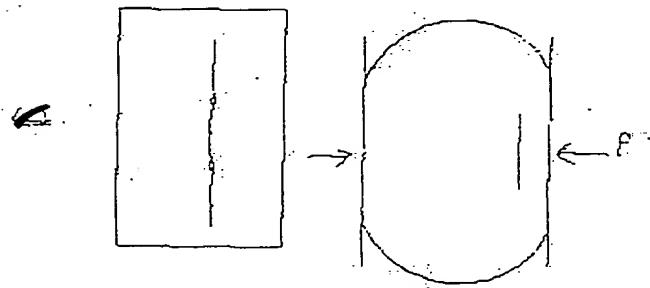
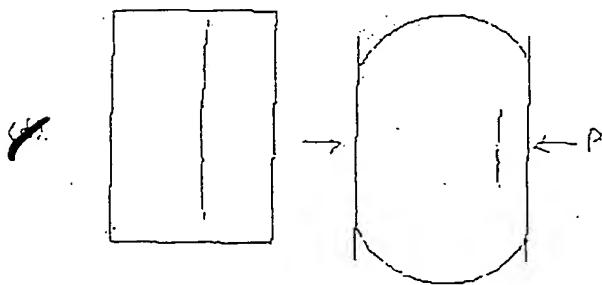


Fig. 20D



~~【回転】~~

Fig. 21A

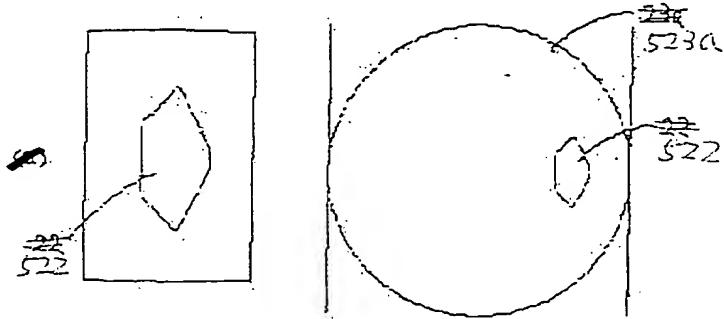


Fig. 21B

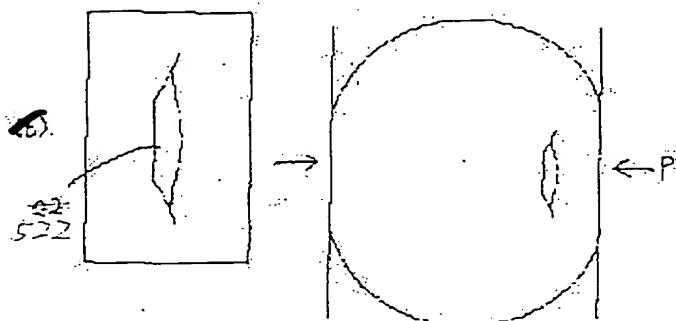
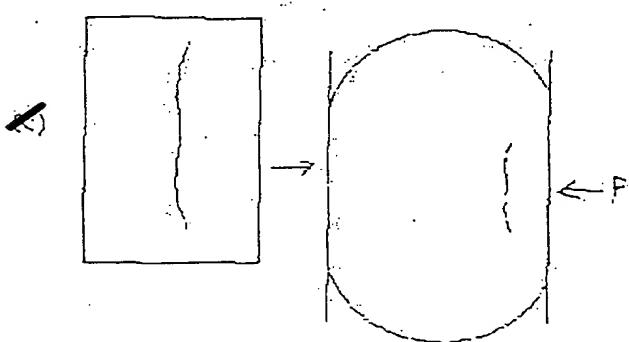
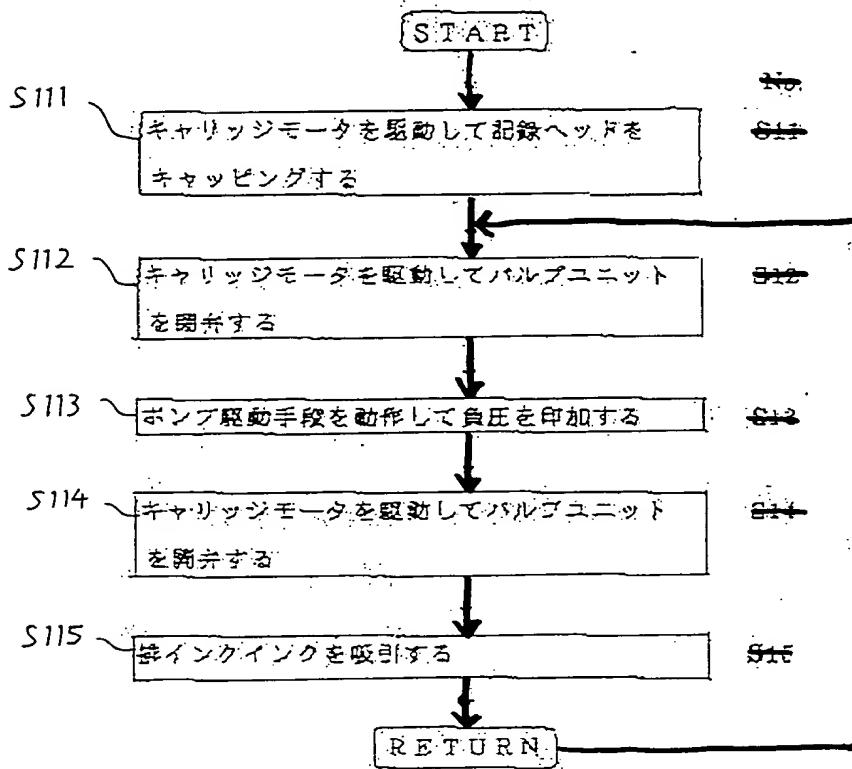


Fig. 21C



[図22]

Fig. 22



- S111: drive carriage motor and cap recording head
- S112: drive carriage motor and close valve unit
- S113: operate pump driver for applying negative pressure
- S114: drive carriage motor and open valve unit
- S115: suck waste ink

Fig. 23

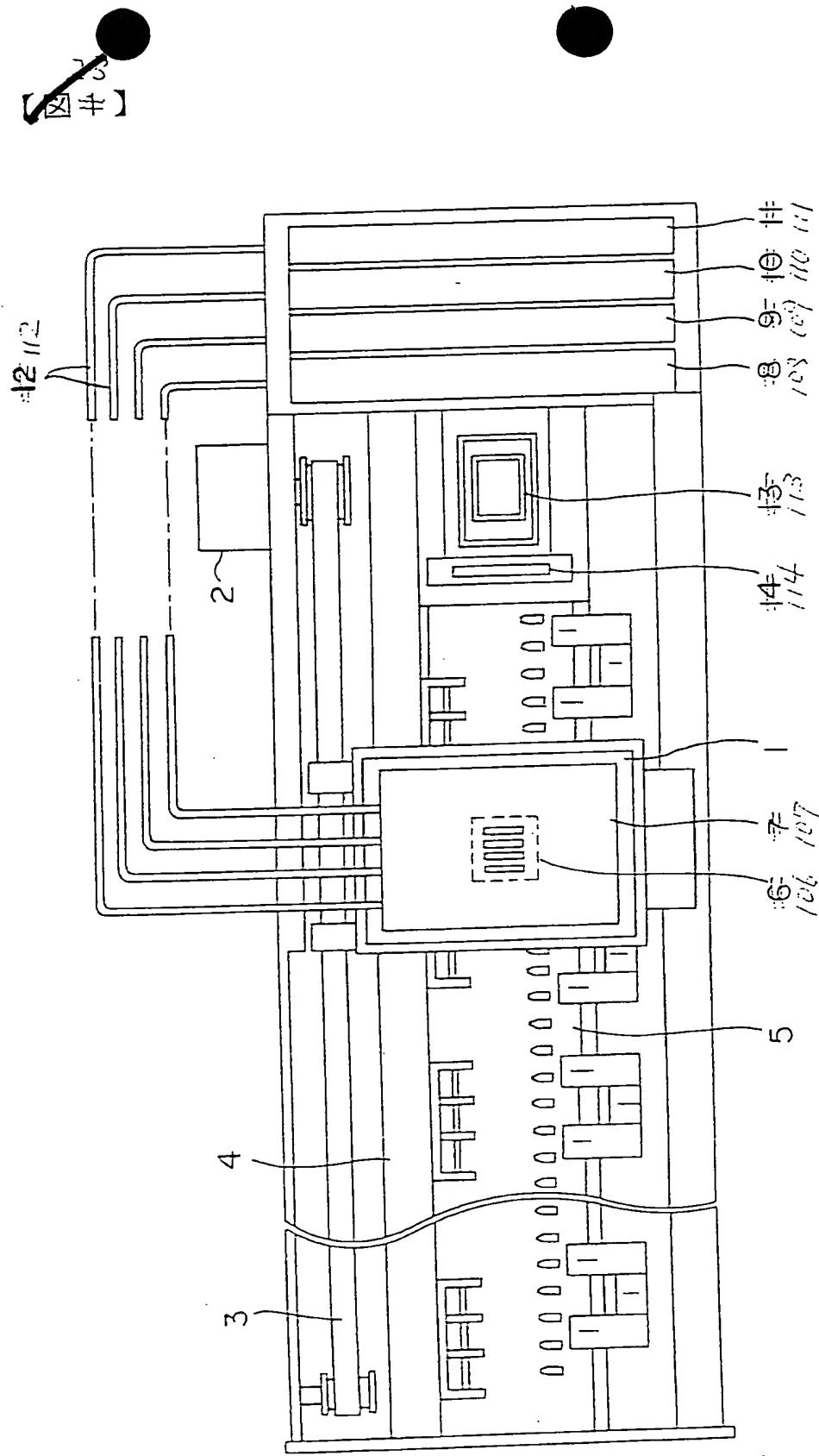


Fig. 24

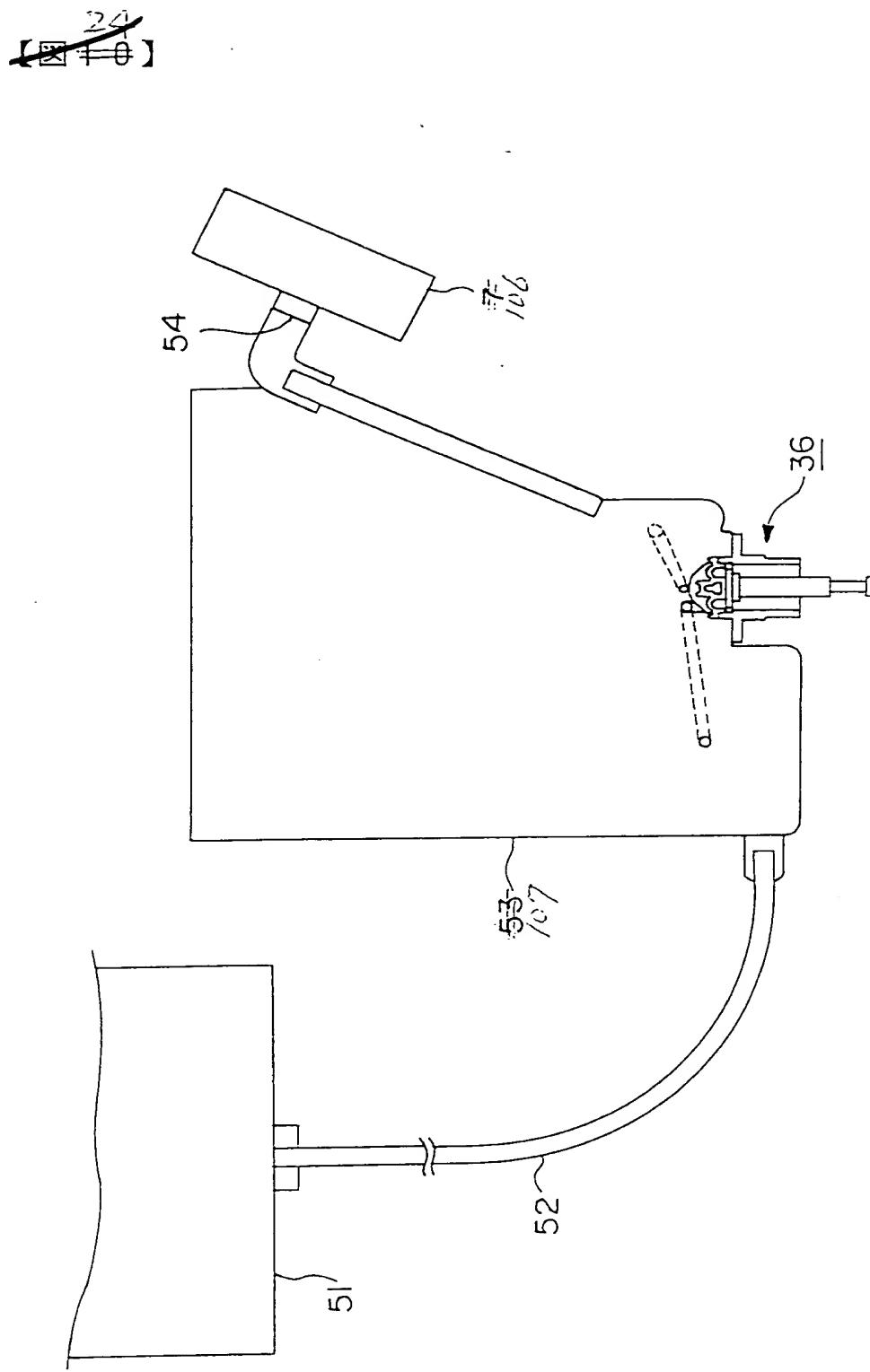


Fig. 25

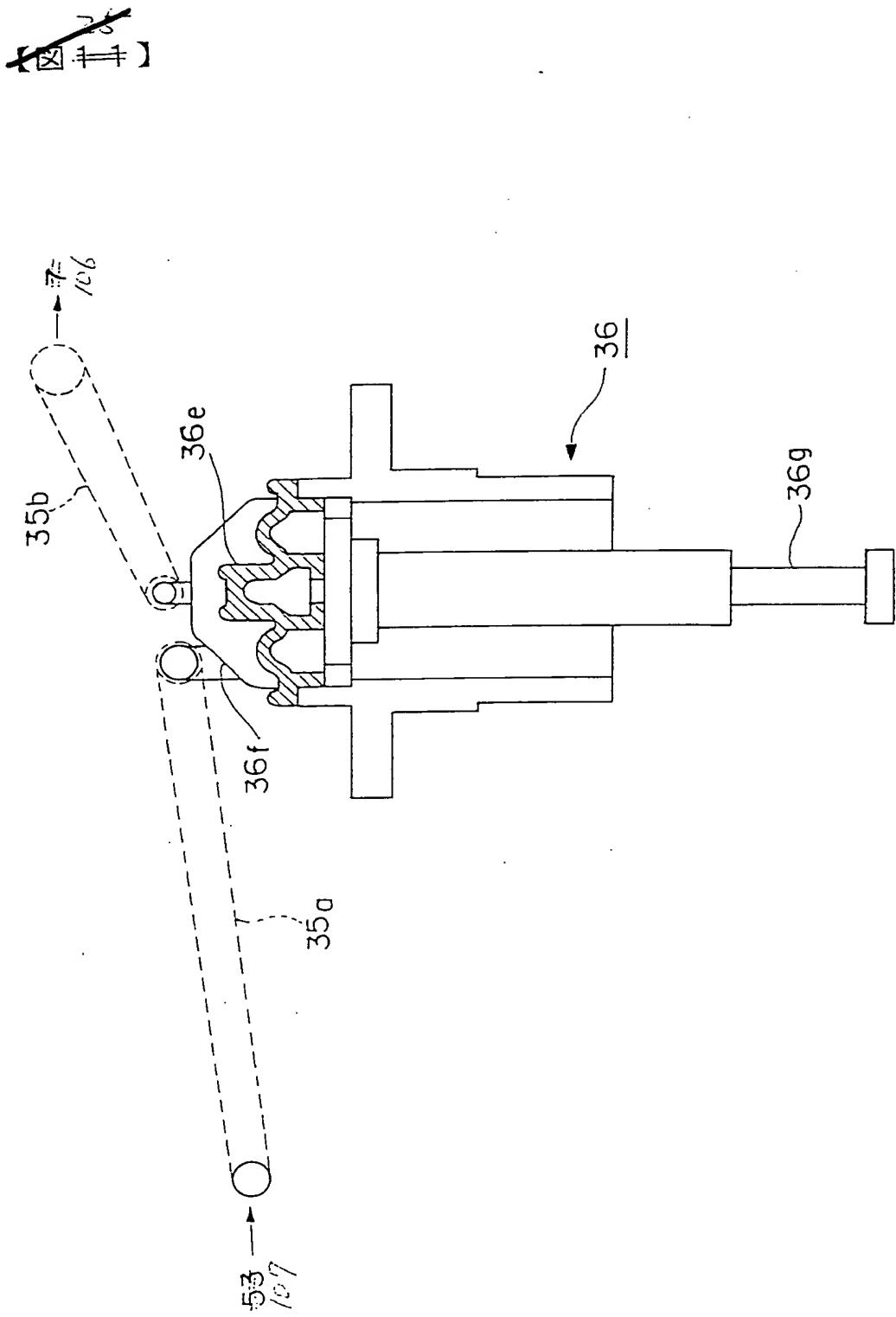


Fig. 26

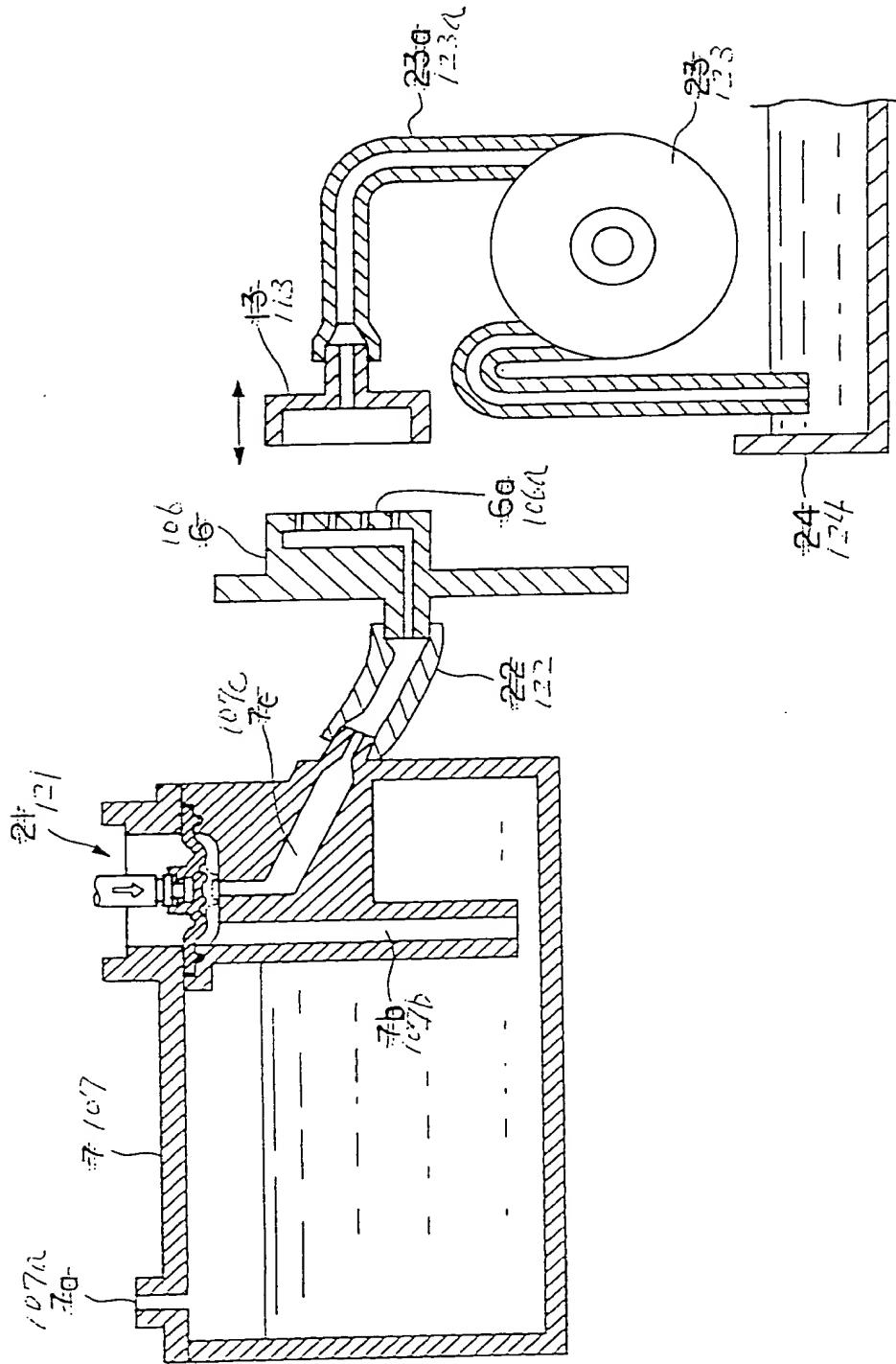


Fig. 27

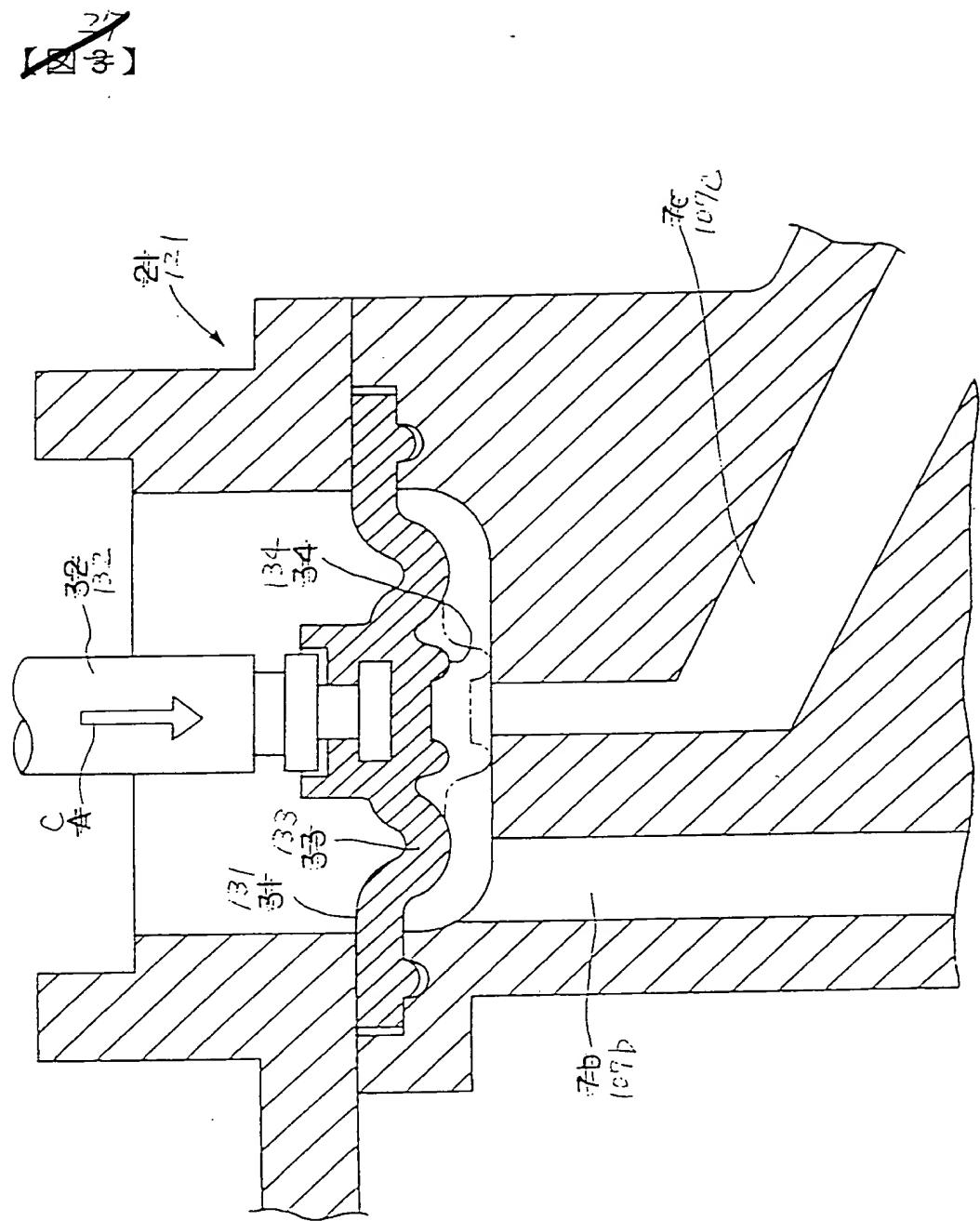


Fig. 28
~~Fig. 28~~

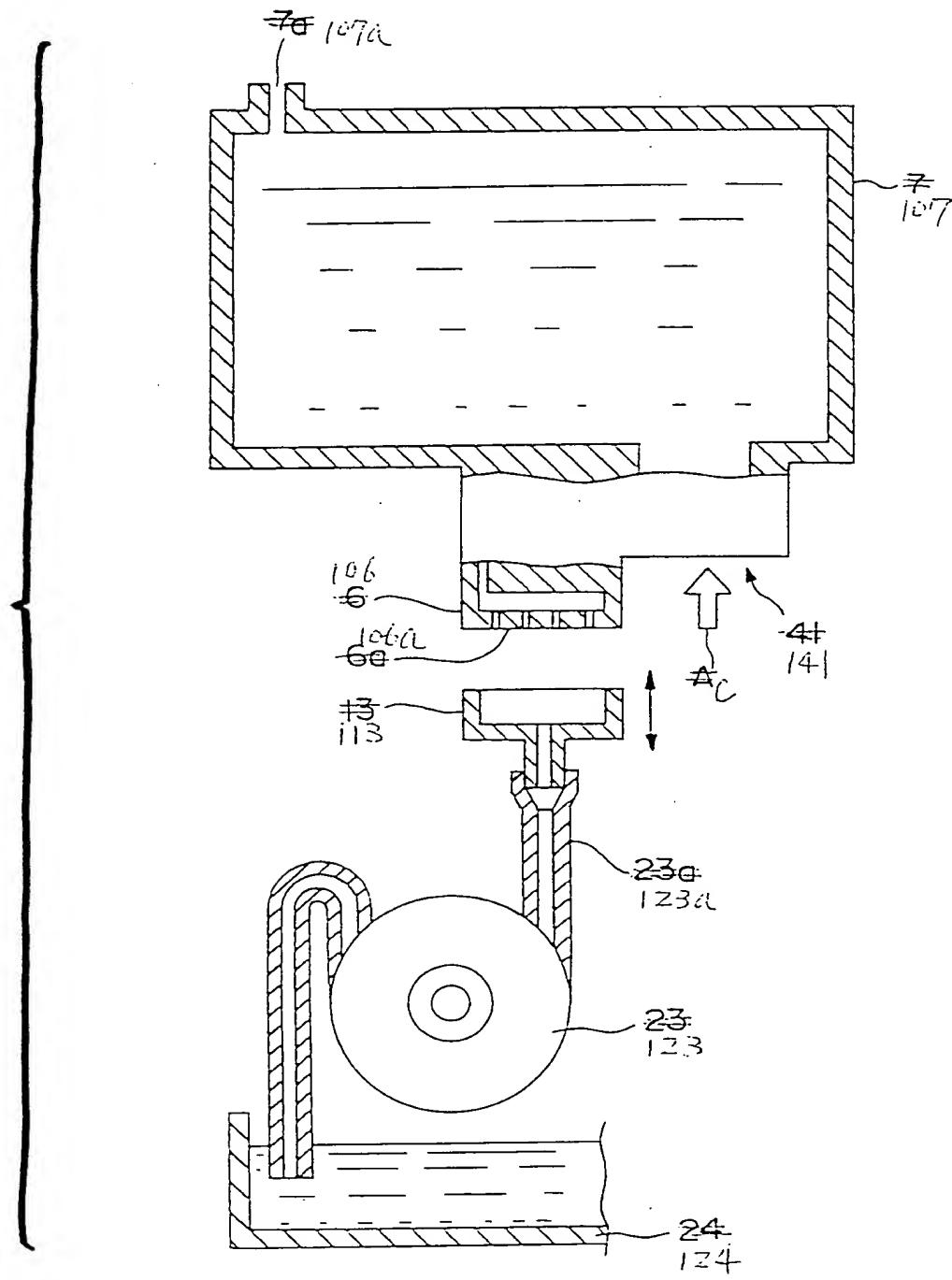


Fig. 29

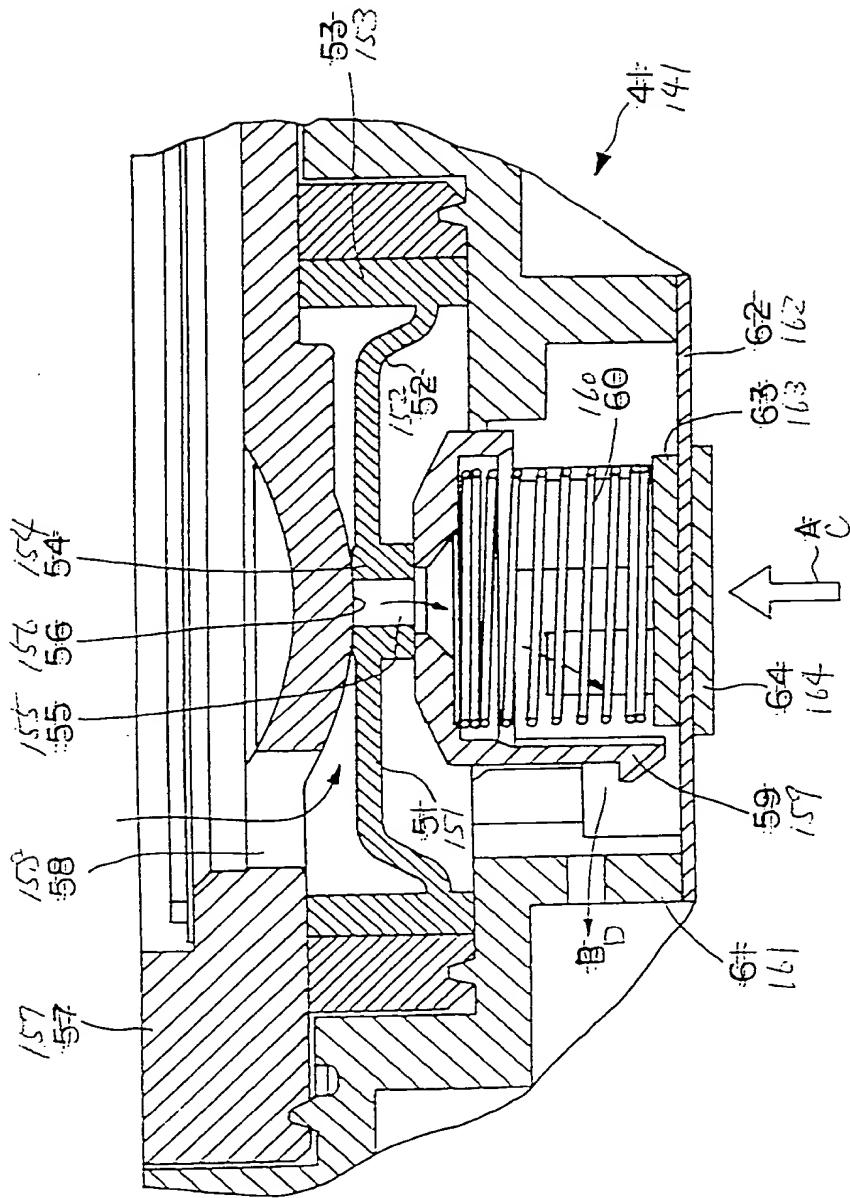


Fig. 30

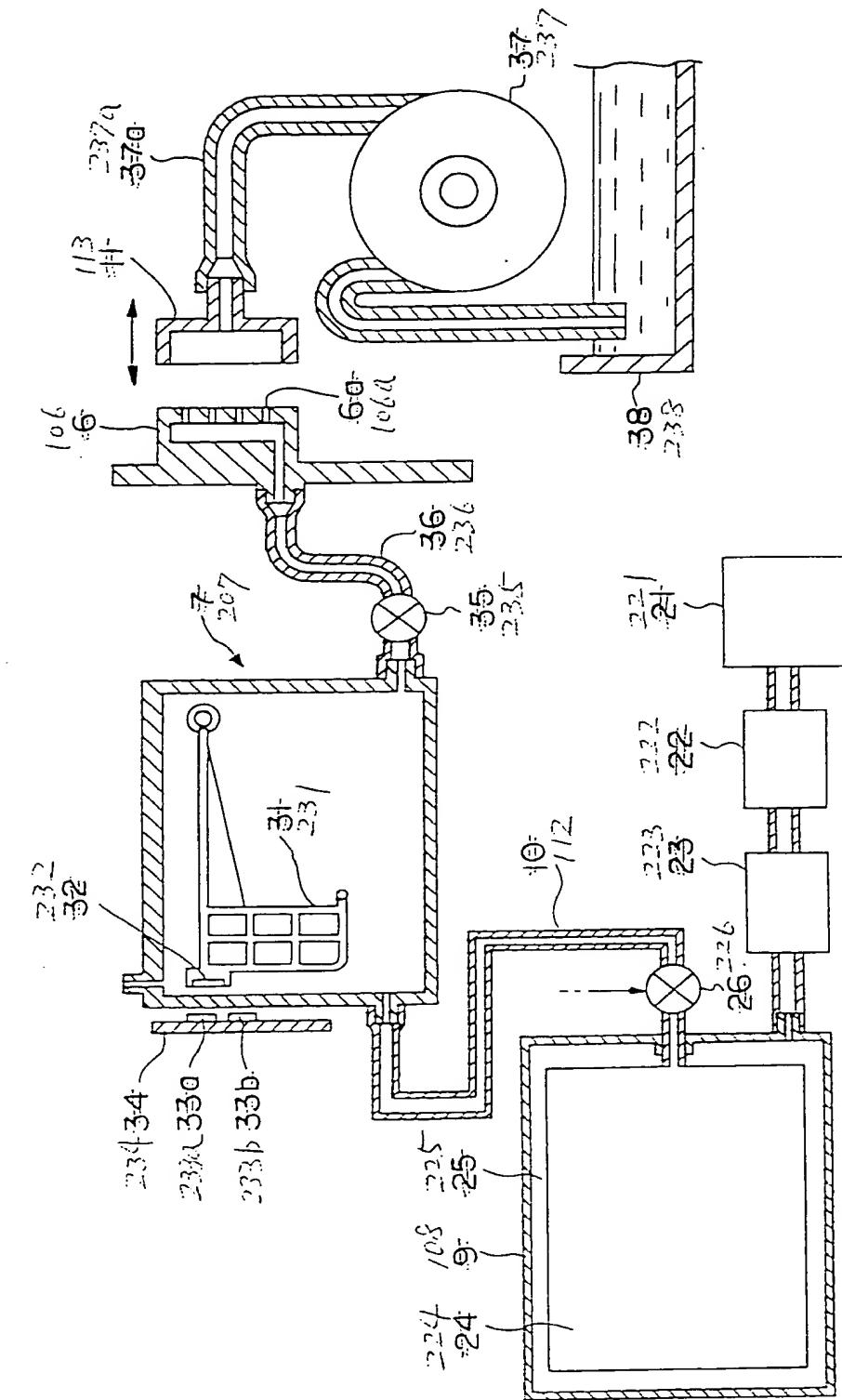
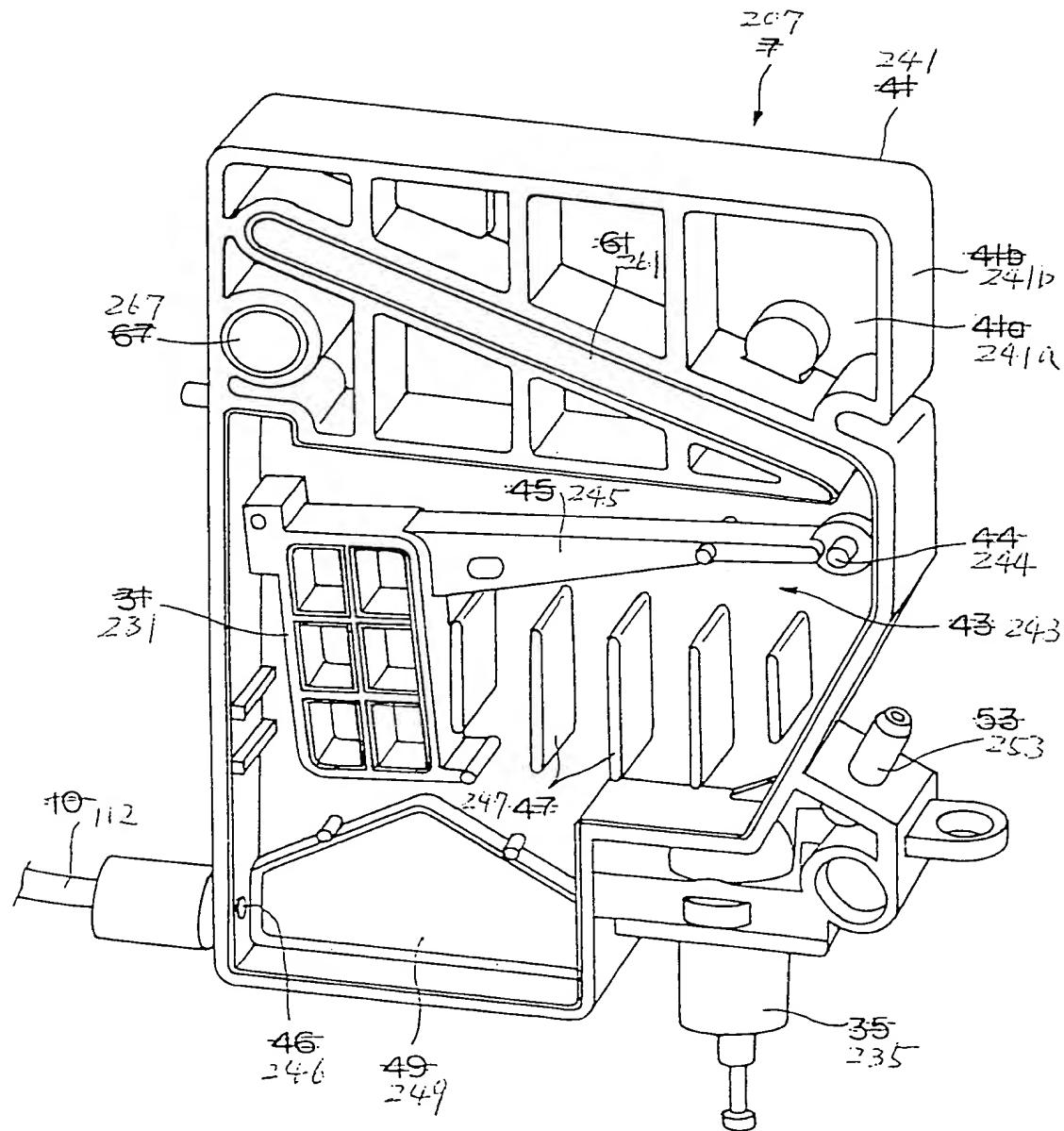


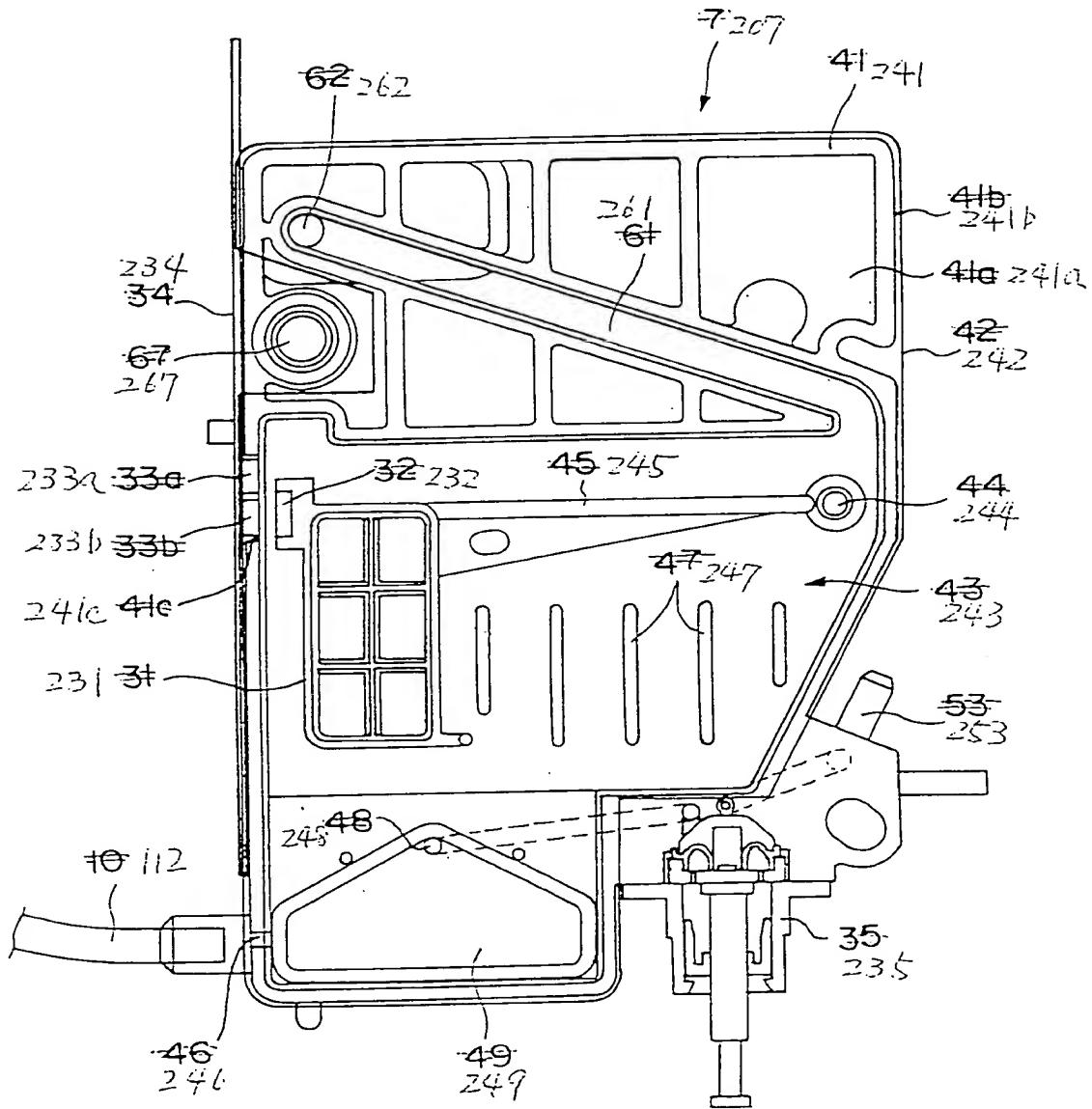
Fig. 31

31
[~~3~~]



【回転】

Fig. 32



~~33~~
[回示]

Fig. 33

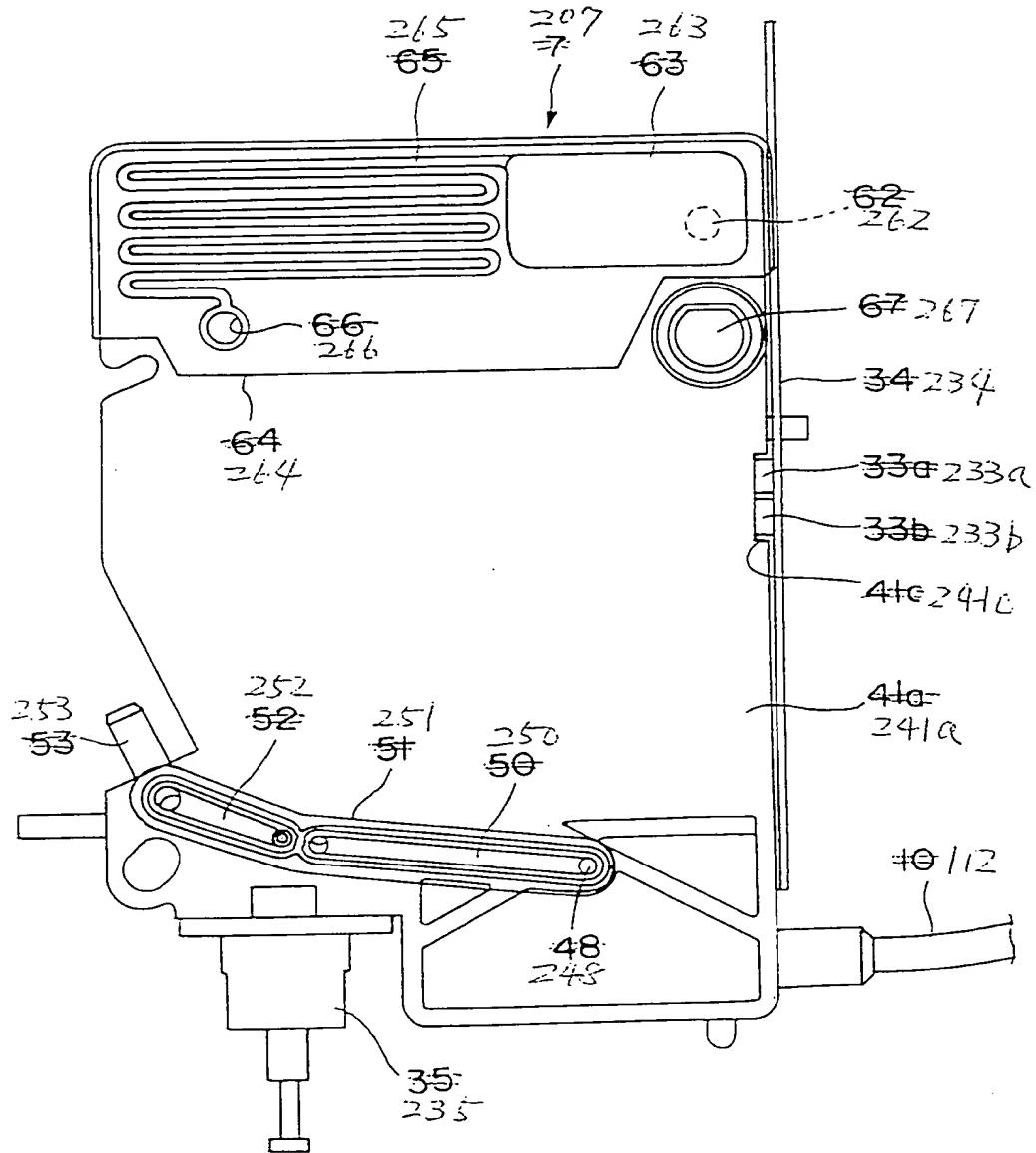


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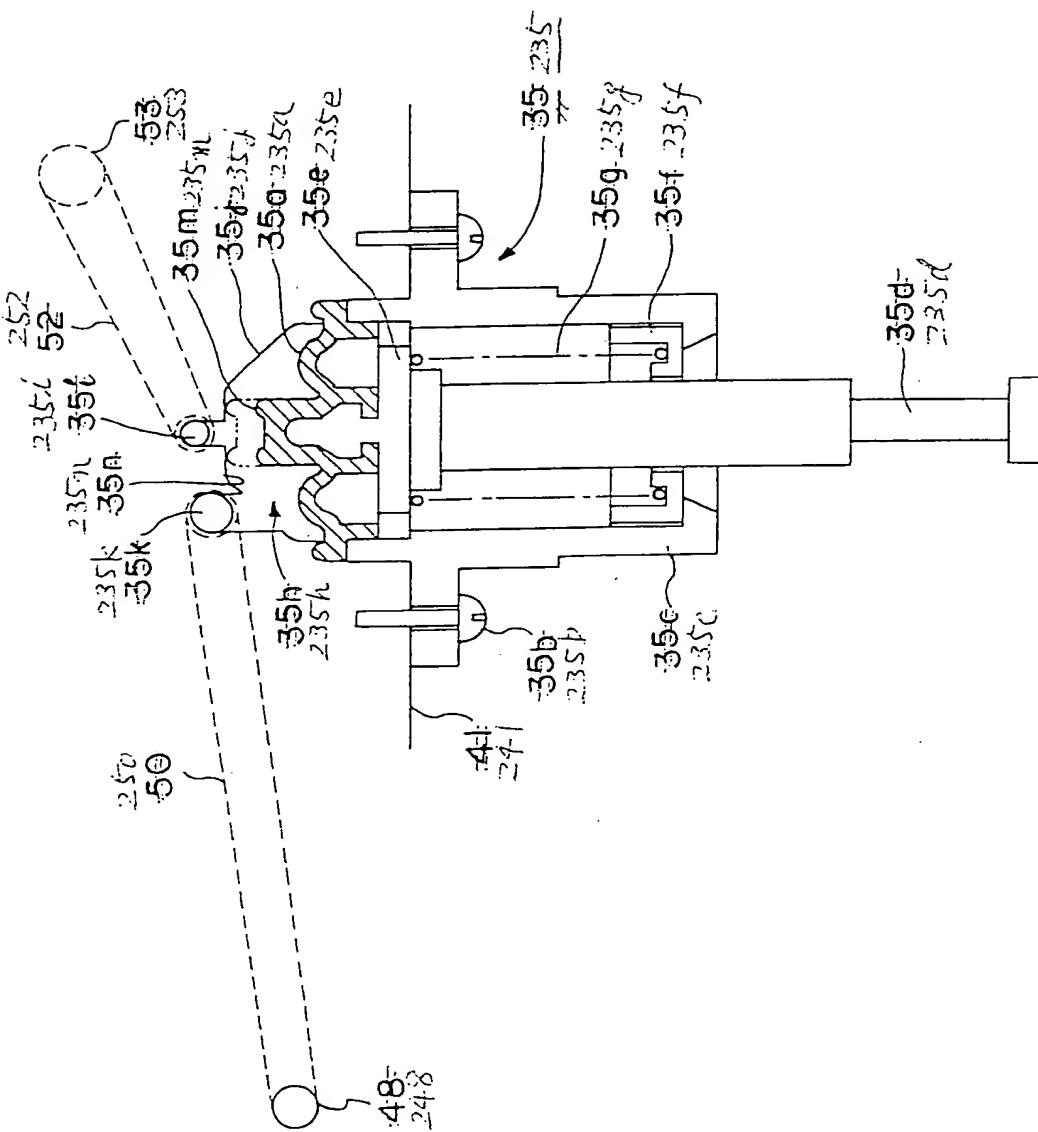


Fig. 35

38

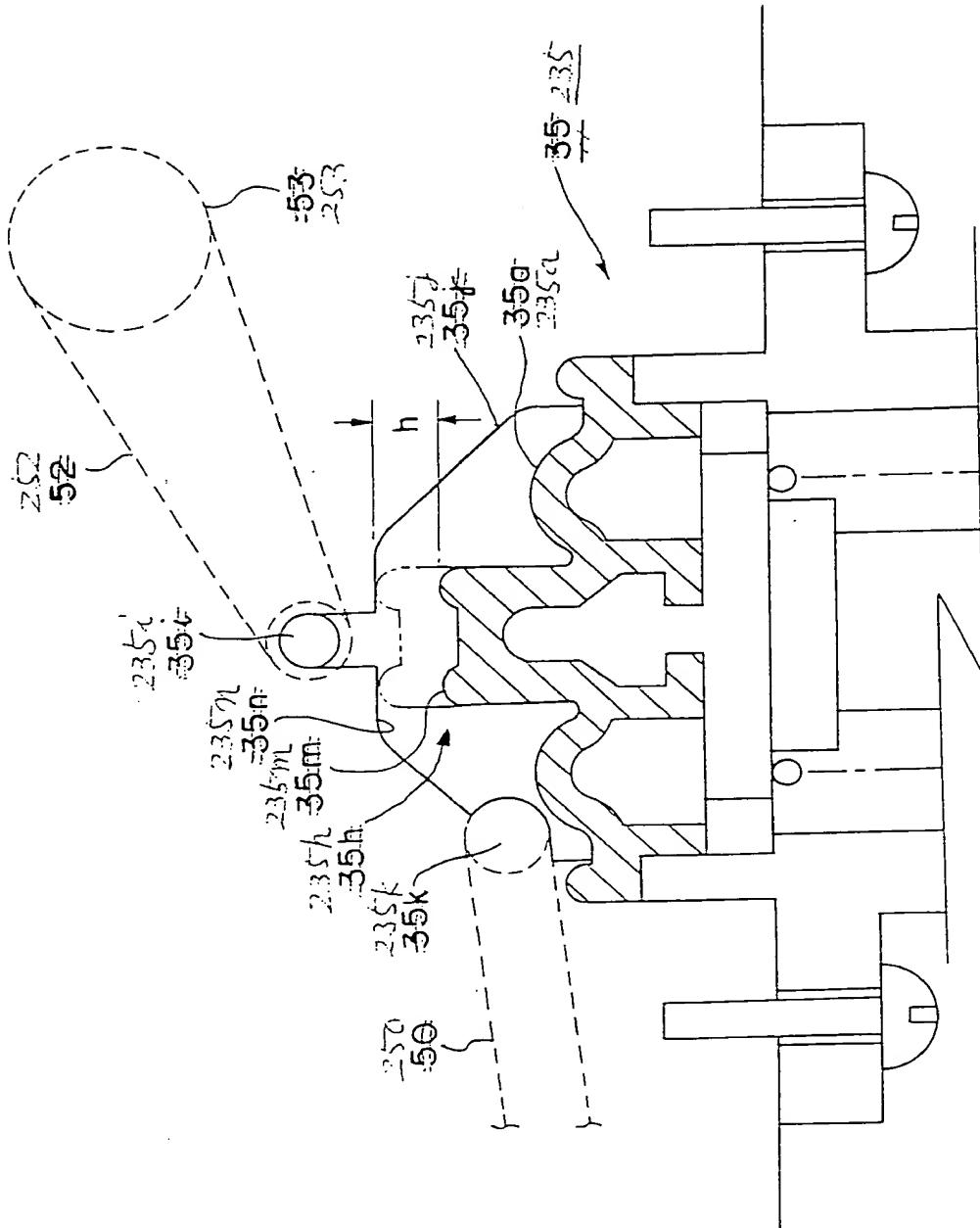


Fig. 36

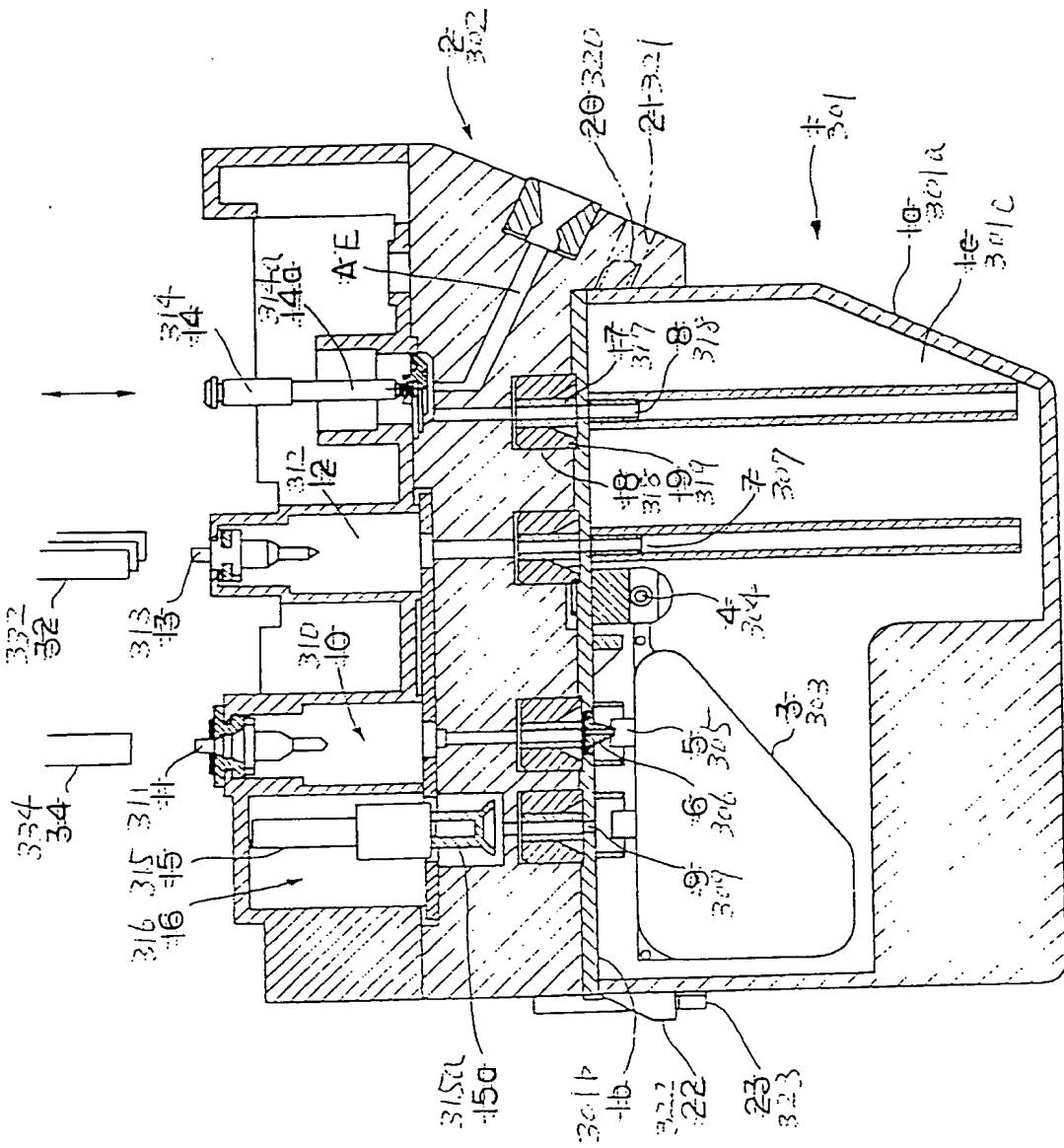
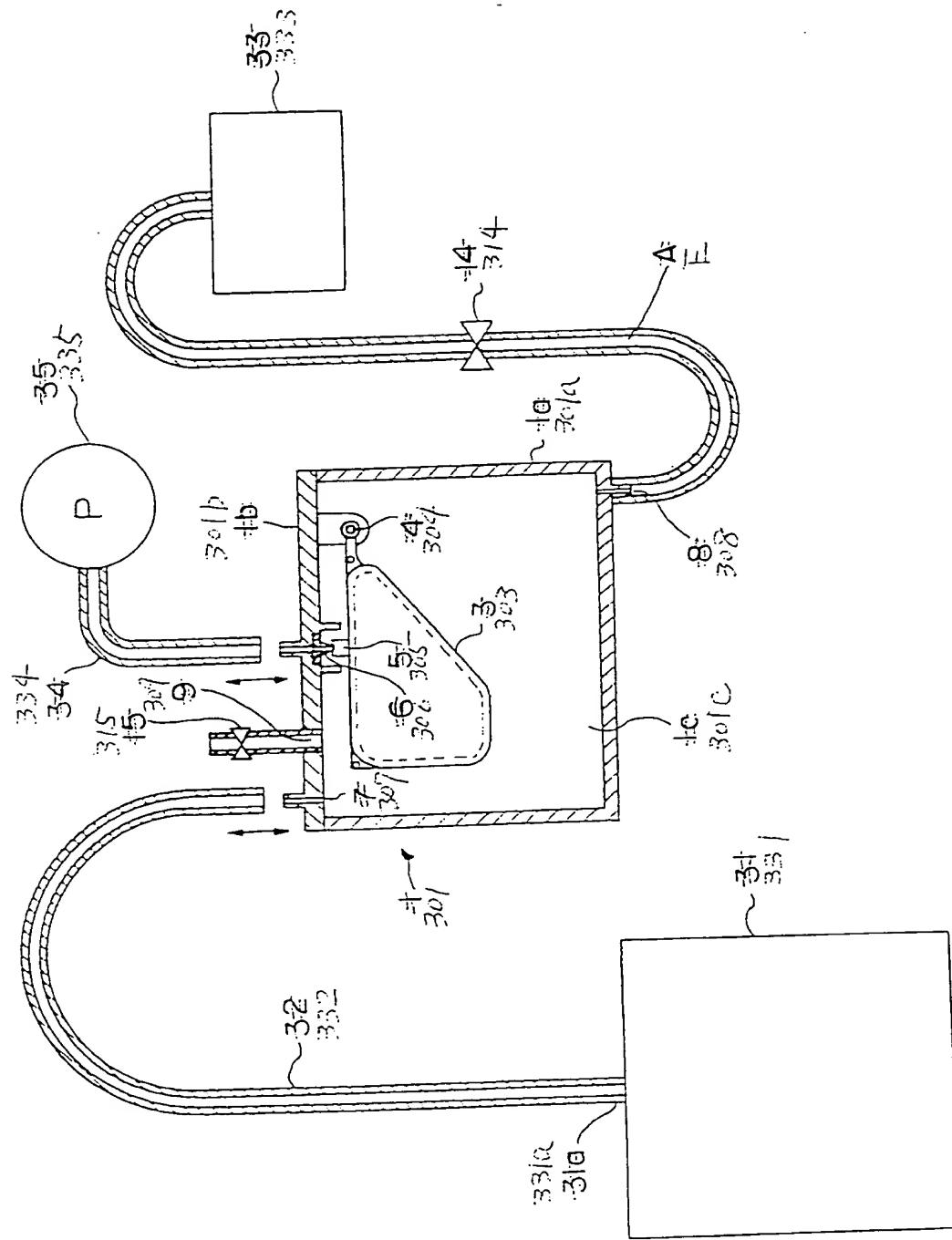
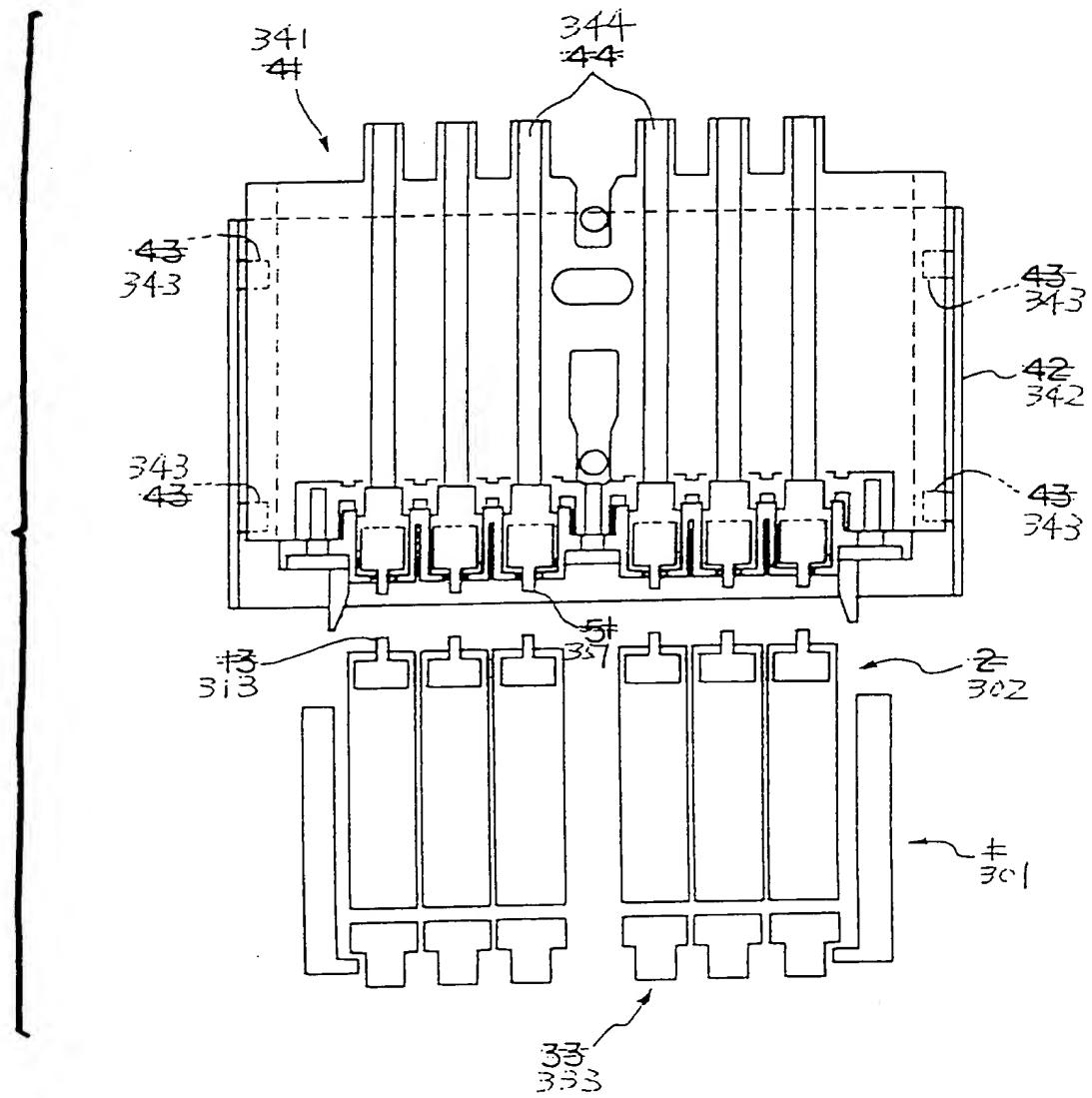


Fig. 37



~~图 38~~

Fig. 38



39
[4]

Fig. 39

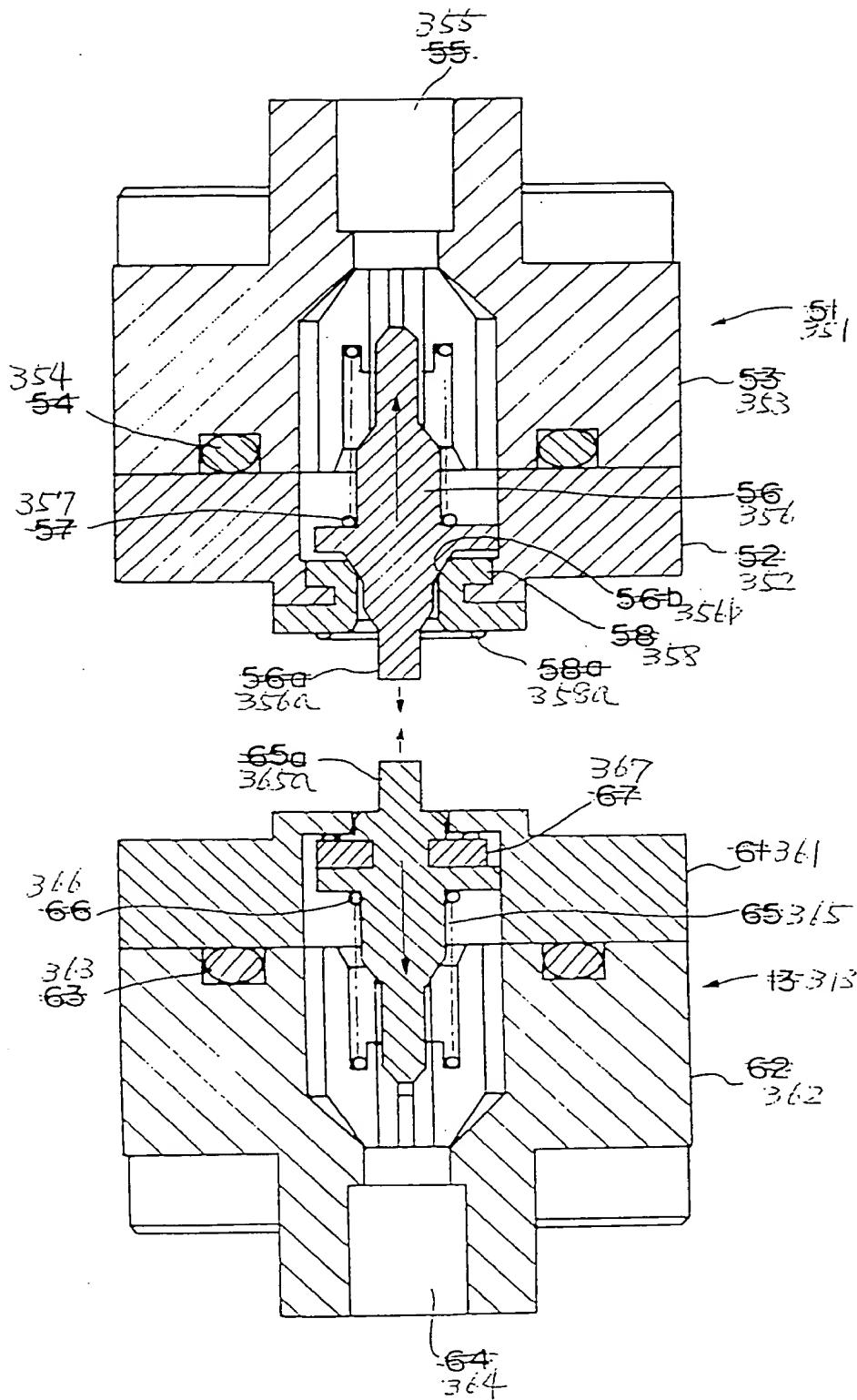
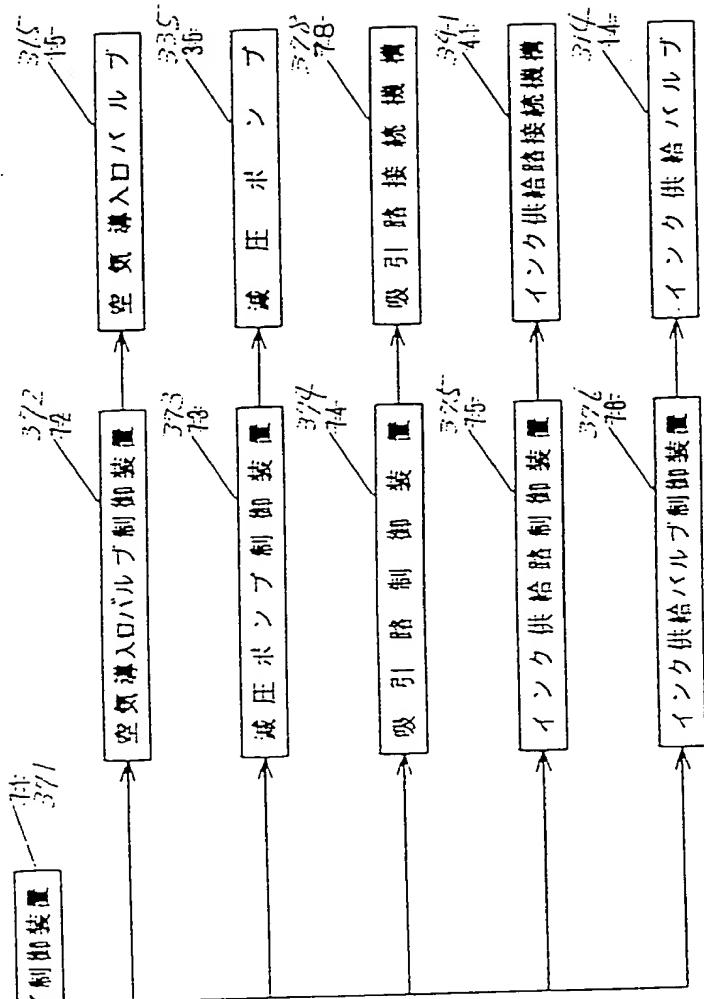
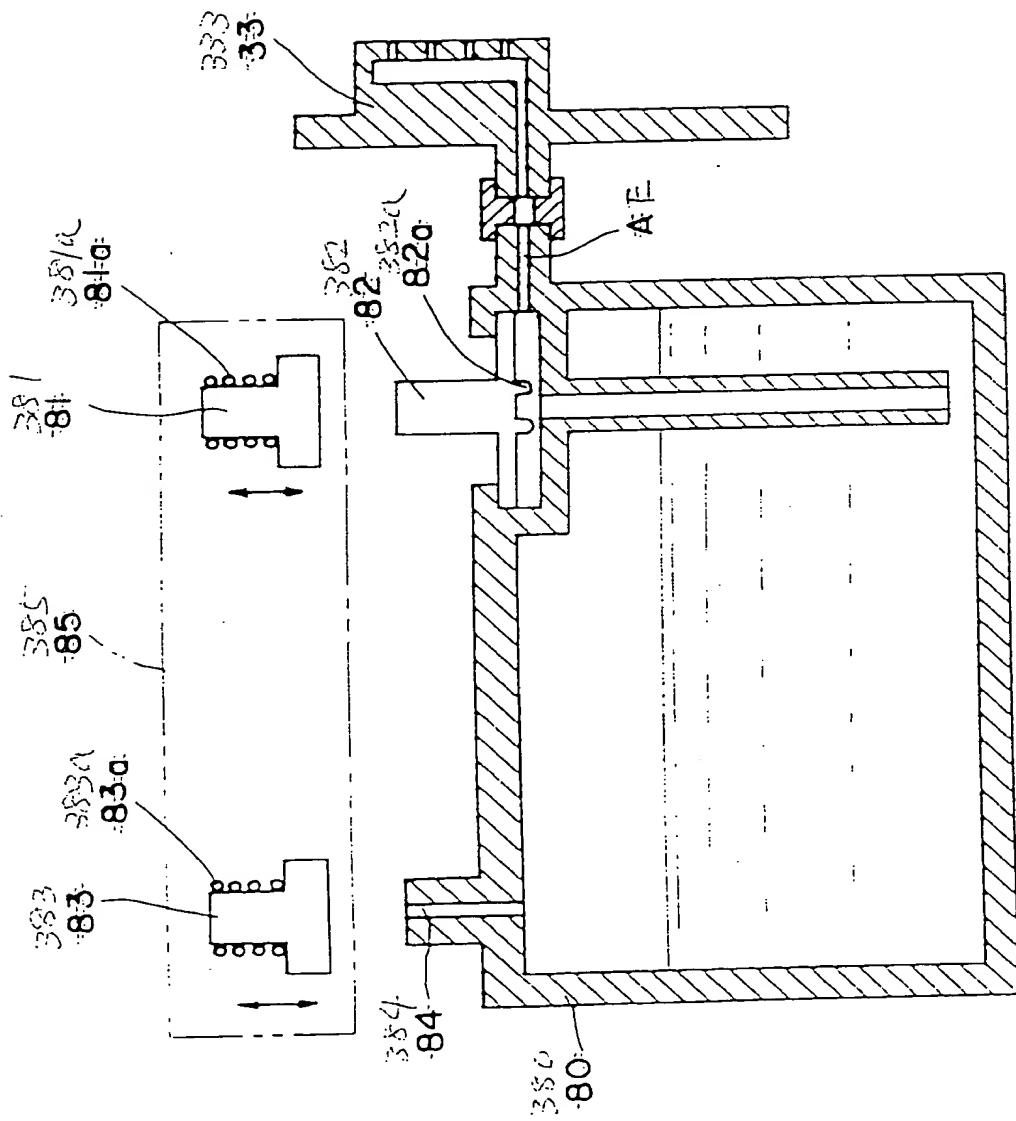


Fig. 40



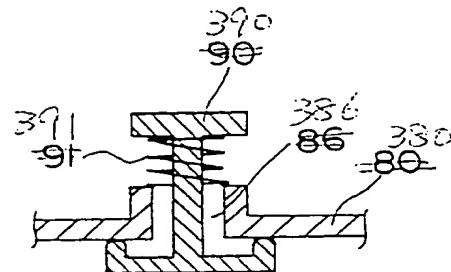
- 314: ink supply valve unit
- 315: air introduction valve
- 335: decompressor pump
- 341: ink supply passage connecting unit
- 371: timing controller
- 372: air introduction valve controller
- 373: decompressor pump controller
- 374: suction passage controller
- 375: ink supply passage controller
- 376: ink supply valve controller
- 378: suction channel connecting unit

Fig. 41



~~42~~
[圖示]

Fig. 42



~~Fig. 42~~

Fig. 43

